

09/868131

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STRUCTURE FILE UPDATES: 21 FEB 2006 HIGHEST RN 874882-62-9  
DICTIONARY FILE UPDATES: 21 FEB 2006 HIGHEST RN 874882-62-9

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\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

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L1 43378 SEA ABB=ON PLU=ON F[2.][FY][ST][FY] | .TFCGT[PI][DE]Y[LIM]A  
PE/SQSP

FILE 'CAPLUS' ENTERED AT 16:57:11 ON 22 FEB 2006  
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FILE COVERS 1907 - 22 Feb 2006 VOL 144 ISS 9  
FILE LAST UPDATED: 21 Feb 2006 (20060221/ED)

09/868131

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L1 43378 SEA FILE=REGISTRY ABB=ON PLU=ON F[2.][FY][ST][FY] |.TFCGT[  
PI][DE]Y[LIM]APE/SQSP  
L2 7284 SEA FILE=CAPLUS ABB=ON PLU=ON L1  
L3 558 SEA FILE=CAPLUS ABB=ON PLU=ON SGK## OR SER##(1W)(GLUCOCOR  
TICOID? OR GLUCO CORTICOID?) (2W) KINASE  
L5 17 SEA FILE=CAPLUS ABB=ON PLU=ON L2(L)L3

L5 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 30 Dec 2005

ACCESSION NUMBER: 2005:1350605 CAPLUS

DOCUMENT NUMBER: 144:69837

TITLE: Preparation of 3-aminoindazoles as serum and  
glucocorticoid-regulated kinase (SGK) inhibitors

INVENTOR(S): Dorsch, Dieter; Burgdorf, Lars Thore; Gericke,  
Rolf; Beier, Norbert; Mederski, Werner; Lang,  
Florian

PATENT ASSIGNEE(S): Merck Patent GmbH, Germany

SOURCE: PCT Int. Appl., 136 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

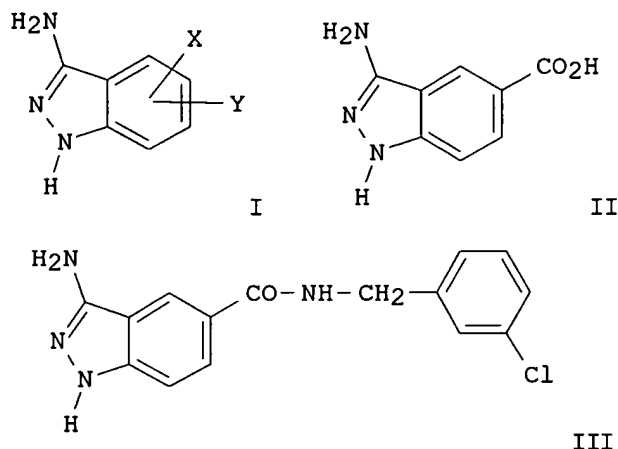
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005123688	A2	20051229	WO 2005-EP3513	20050404
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 102004028862	A1	20051229	DE 2004-102004028862	20040615
PRIORITY APPLN. INFO.:			DE 2004-102004028862A	20040615

GI



AB Title compds. I [Y = W-R1; X = H, halo, NO<sub>2</sub>, etc.; R1 = carbocycle, heterocycle, etc.; W = [C(R<sub>2</sub>)<sub>2</sub>]<sub>n</sub>-[C(R<sub>2</sub>)<sub>2</sub>]<sub>n</sub>CONR<sub>2</sub>[C(R<sub>2</sub>)<sub>2</sub>]<sub>n</sub>, etc.; R<sub>2</sub> = H, A, etc.; A = alkyl, alkylene, etc.] and their pharmaceutically acceptable salts and formulations were prepared For example, coupling of carboxylic acid II and 3-chlorobenzylamine afforded aminoindazole III. Compds. I are claimed to be useful as glucocorticoid-regulated kinase (SGK) inhibitors (no data provided).

IT **868907-66-8**

RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibition of; preparation of 3-aminoindazoles as **serum** and **glucocorticoid-regulated kinase (SGK)** inhibitors)

L5 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 16 Dec 2005

ACCESSION NUMBER: 2005:1314161 CAPLUS

DOCUMENT NUMBER: 144:45517

TITLE: Diagnostics and therapeutics for diseases associated with human serum/glucocorticoid-regulated kinase-like protein based on tissue expression profiling

INVENTOR(S): Golz, Stefan; Brueggemeier, Ulf; Geerts, Andreas

PATENT ASSIGNEE(S): Bayer Healthcare AG, Germany

SOURCE: PCT Int. Appl., 111 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005118832	A2	20051215	WO 2005-EP5435	20050519
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA,				

UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,  
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,  
 DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC,  
 NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,  
 GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

EP 2004-12874

A 20040601

AB The present invention is based on tissue expression profiling of human serum/glucocorticoid-regulated kinase-like protein (SGKL, also known as SGK3) using real-time PCR/Taqman technol. Thus, SGKL is expressed in human tissues and cells associated with the cardiovascular diseases, infections, metabolic diseases, dermatol. diseases, gastroenterol. diseases, cancer, inflammation, hematol. diseases, respiratory diseases, muscle skeleton diseases, neurol. diseases, and urol. diseases. The invention also provides assays for the identification of compds. useful in the treatment or prevention of these diseases. The invention also features compds. which bind to and/or activate or inhibit the activity of SGKL as well as pharmaceutical compns. comprising such compds. (no data).

IT 871134-17-7

RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (amino acid sequence; diagnostics and therapeutics for diseases associated with human **serum/glucocorticoid**-regulated **kinase** like protein based on tissue expression profiling)

L5 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 11 Nov 2005

ACCESSION NUMBER: 2005:1200402 CAPLUS

DOCUMENT NUMBER: 143:452921

TITLE: Use of human gene sgk protein kinase in diagnosis and treatment of diseases

INVENTOR(S): Golz, Stefan; Brueggemeier, Ulf; Geerts, Andreas

PATENT ASSIGNEE(S): Bayer Healthcare A.-G., Germany

SOURCE: PCT Int. Appl., 103 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005106491	A2	20051110	WO 2005-EP4103	20050418
WO 2005106491	A3	20051215		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,			

09/868131

GN, GQ, GW, ML, MR, NE, SN, TD, TG  
PRIORITY APPLN. INFO.: EP 2004-10386 A 20040430

AB The invention relates to the use of human gene *sgk* protein kinase in diagnosis and treatment of diseases. In particular it relates to the regulation of gene *sgk* protein kinase in the diagnosis, treatment or prevention of cardiovascular diseases, respiratory diseases, cancer, gastroenterol. diseases, metabolic diseases, inflammation, hematol. diseases, neurol. diseases, endocrine disease and urol. diseases. Pharmaceutical compns. may comprise small mols., RNA, antisense oligonucleotides, polypeptides, antibodies or ribozymes.

IT 868907-66-8

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(amino acid sequence; use of human gene *sgk* protein kinase in diagnosis and treatment of diseases)

L5 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 20 Aug 2004

ACCESSION NUMBER: 2004:681506 CAPLUS

DOCUMENT NUMBER: 141:207207

TITLE: Benzimidazolyl-pyridine derivatives useful as SGK-1 inhibitors, and their preparation, pharmaceutical compositions, and methods of use

INVENTOR(S): Drewry, David Harold; Hunter, Robert Neil, III

PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA

SOURCE: PCT Int. Appl., 58 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

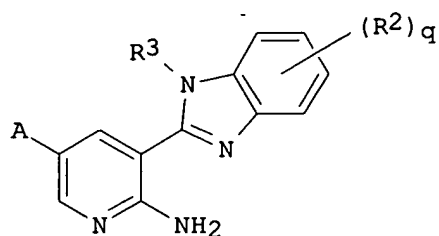
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004069160	A2	20040819	WO 2004-US2076	20040127
WO 2004069160	A3	20050324		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1590339	A2	20051102	EP 2004-705578	20040127
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRIORITY APPLN. INFO.:			US 2003-443462P	P 20030128
			US 2003-452335P	P 20030305
			WO 2004-US2076	W 20040127

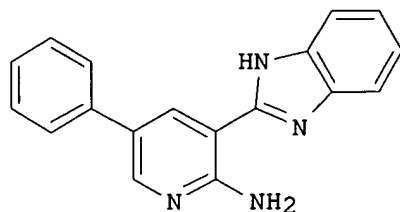
OTHER SOURCE(S): MARPAT 141:207207

GI

Searcher : Shears 571-272-2528



I



II

AB Benzimidazolyl-pyridine derivs., which are useful as SGK-1 inhibitors are described. The described invention also includes methods of making such benzimidazolyl-pyridine derivs., as well as methods of their use in the treatment of diseases mediated by inappropriate SGK-1 activity. In particular, compds. I and their salts, solvates, and physiol. functional derivs. are claimed [wherein: A is aryl; R2 is H, halo, C1-C6 alkyl, C1-C6 alkoxy, heteroaryl, S(O)2NR4R5, C(O)OR6, or C(O)NR4R5; q is 1, 2, 3, or 4; R3 is H or C1-C3 alkyl; R4 is H or C1-C3 alkyl; R5 is H or C1-C3 alkyl; or NR4R5 forms a heterocyclyl ring, said ring optionally containing 1 or 2 addnl. oxygen, S(O)m, or N atoms, said N atoms being optionally substituted by a C1-C3 alkyl group; m = 0-2; and R6 is C1-C6 alkyl]. Seventeen compds. I are claimed by name, and these compds. or their salts I.HCl were prepared in examples. For instance, 2-amino-5-bromopyridine was (1) coupled with PhB(OH)2 using Pd(PPh3)2Cl2 catalyst, and the resultant 5-phenylpyridin-2-amine underwent a sequence of (2) amidation with Me3CCOCl, (3) ring formylation in the 3-position, (4) cyclocondensation of the resulting aldehyde group with o-phenylenediamine in the presence of NaHSO3 to give a benzimidazole, and (5) deprotection of the amide with HCl in EtOH, to give invention compound II.HCl. In an SGK-1 enzyme assay, based on the intracellular domain of SGK-1 (GenBank accession number AAD41091), II.HCl and 5 other example compds. all had pIC50 > 6.0.

IT **480564-37-2**, GenBank AAD41091

RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitors; preparation of benzimidazolylpyridinamine derivs. as SGK-1 inhibitors)

L5 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 03 Feb 2004

ACCESSION NUMBER: 2004:85983 CAPLUS

DOCUMENT NUMBER: 140:194431

TITLE: Human prostate cancer marker genes associated with

various metastatic stages identified by gene profiling, and related compositions, kits, and methods for diagnosis, prognosis and therapy

INVENTOR(S): Schlegel, Robert; Endege, Wilson O.  
 PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., USA  
 SOURCE: U.S. Pat. Appl. Publ., 131 pp.  
 CODEN: USXXCO

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004009481	A1	20040115	US 2002-166883	20020611
US 2004009481	A1	20040115	US 2002-166883	20020611
PRIORITY APPLN. INFO.:			US 2001-297285P	P 20010611
			US 2002-166883	A 20020611

AB The invention relates to compns., kits, and methods for diagnosing, staging, prognosing, monitoring and treating human prostate cancers. A variety of marker genes are provided, wherein changes in the levels of expression of one or more of the marker genes is correlated with the presence of prostate cancer. In particular, three sets of the marker genes, corresponding to 11617 GenBank Accession Nos. (only 2168 new submissions) and 15 SEQ IDs, are identified by transcription profiling using RNA derived from clin. samples, that were expressed at least 2-fold or greater than the normal controls. Using TNM staging approach, these markers are divided to three groups, ones can be used to determine whether prostate cancer has metastasized, or is likely to metastasize, to the liver (M stage); ones can be used to determine whether prostate cancer has metastasized, or is likely to metastasize, to the bone (M stage); and ones can be used to determine whether prostate cancer has metastasized, or is likely to metastasize, to the lymph nodes (N stage and/or M stage). The invention also relates to a kit for assessing the specific type of metastatic prostate cancer, e.g., cancer that has metastasized to the liver, bone or lymph nodes. [This abstract record is one of three records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT **459673-27-9**, Protein kinase (human gene **SGK3**)  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
 (amino acid sequence; human prostate cancer marker genes associated with various metastatic stages identified by gene profiling, and related compns., kits, and methods for diagnosis, prognosis and therapy)

L5 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN  
 ED Entered STN: 27 Sep 2002  
 ACCESSION NUMBER: 2002:736430 CAPLUS  
 DOCUMENT NUMBER: 137:274010  
 TITLE: Single-nucleotide polymorphisms in human SGK1 gene associated with hypertonia and their use in diagnosis  
 INVENTOR(S): Lang, Florian; Busjahn, Andreas; Luft, Friedrich C.  
 PATENT ASSIGNEE(S): Germany

SOURCE: PCT Int. Appl., 26 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002074987	A2	20020926	WO 2002-EP3180	20020321
WO 2002074987	A3	20031204		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10113876	A1	20020926	DE 2001-10113876	20010321
CA 2441314	AA	20020926	CA 2002-2441314	20020321
EP 1390531	A2	20040225	EP 2002-712954	20020321
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
CN 1503848	A	20040609	CN 2002-808648	20020321
JP 2004528032	T2	20040916	JP 2002-574375	20020321
PRIORITY APPLN. INFO.:			DE 2001-10113876	A 20010321
			WO 2002-EP3180	W 20020321

AB The invention relates to the use of the direct correlation between the overexpression or the functional mol. modification of human homologs of the sgk family and hypertonia for quant. diagnosing a specific form of genetically related hypertonia. The invention particularly relates to the detection of a direct relationship between two different polymorphisms of individual nucleotides in the hsgk1 gene and the genetically related predisposition to hypertonia. The invention addnl. relates to the provision of a diagnostic kit containing antibodies or polynucleotides used for detecting hsgk1 SNPs. Thus, a T→C change in intron 6 and a C→T change in exon 8 of the human serum-and-glucocorticoid-dependent protein kinase SGK1 gene were shown to be associated with hypertonia.

IT **463985-36-6**

RL: PRP (Properties)

(unclaimed protein sequence; single-nucleotide polymorphisms in human **SGK1** gene associated with hypertonia and their use in diagnosis)

L5 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 06 Sep 2002

ACCESSION NUMBER: 2002:674651 CAPLUS

DOCUMENT NUMBER: 137:215234

TITLE: Protein and cDNA sequences of human cancer-associated protein kinases SGK2 and their diagnostic and therapeutic uses

INVENTOR(S): Delaney, Allen; Yoganathan, Thillainathan

PATENT ASSIGNEE(S): Can.



09/868131

SOURCE: U.S. Pat. Appl. Publ., 23 pp., Cont.-in-part of  
Appl. No. PCT/IB01/02237.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002123056	A1	20020905	US 2001-971118	20011003
WO 2002024947	A2	20020328	WO 2001-IB2237	20010920
WO 2002024947	A3	20031204		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2000-237419P	P 20001002
			WO 2001-IB2237	A2 20010920
			US 2000-233999P	P 20000920
			US 2000-237423P	P 20001002
			US 2000-238558P	P 20001004
			US 2001-290555P	P 20010510

AB Detection of SGK2 expression in cancers is useful as a diagnostic, for determining the effectiveness of drugs, and determining patient prognosis.  
SGK2

further provides a target for screening pharmaceutical agents effective in inhibiting the growth or metastasis of tumor cells. The protein kinases SGK2 was found to be upregulated in liver and colon cancer samples. The protein kinases SGK2 can modulate the phosphorylation of status of protein kinase GSK3 in stably transfected HEK293 cells and enhances cell proliferation. The invention also demonstrated that SGK2 overexpression stimulates AP1 transactivation and translocation of  $\beta$  catenin into the nucleus. The invention also demonstrated that SGK2 stimulate TCF4 transcriptional activity and NF- $\kappa$ B transcription. The invention also demonstrated that SGK2 phosphorylated BAD, FKHR and CREB. The invention also demonstrated that SGK2 could regulate signaling pathways that lead to induction of the NF- $\kappa$ B family of transcription factors innHEK293 cells.

IT 456018-55-6

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(amino acid sequence; protein and cDNA sequences of human cancer-associated protein kinases SGK2 and their diagnostic and therapeutic uses)

Searcher : Shears 571-272-2528

IT 456019-53-7

RL: PRP (Properties)

(unclaimed protein sequence; protein and cDNA sequences of human cancer-associated protein kinases **SGK2** and their diagnostic and therapeutic uses)

L5 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 22 Jun 2001

ACCESSION NUMBER: 2001:453281 CAPLUS

DOCUMENT NUMBER: 135:73331

TITLE: Method for identifying modulators of protein kinases PDK1, SGK, S6 kinase, PRK2, and protein kinases A, B, and C

INVENTOR(S): Alessi, Dario; Biondi, Ricardo

PATENT ASSIGNEE(S): University of Dundee, UK

SOURCE: PCT Int. Appl., 180 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001044497	A2	20010621	WO 2000-GB4598	20001204
WO 2001044497	A3	20020314		
W: AU, CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
EP 1234188	A2	20020828	EP 2000-985454	20001204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
JP 2003516760	T2	20030520	JP 2001-545574	20001204
US 2003143656	A1	20030731	US 2003-148786	20030108
PRIORITY APPLN. INFO.:			US 1999-168559P	P 19991202
			WO 2000-GB4598	W 20001204

AB A method of identifying a compound that modulates the protein kinase activity of a protein kinase having a hydrophobic pocket in the position equivalent to the hydrophobic pocket of Protein Kinase A (PKA) that is defined by residues including Lys76, Leu116, Val80 and/or Lys111 of full-length mouse PKA, wherein the ability of the compound to inhibit, promote or mimic the interaction of the said hydrophobic pocket-containing protein kinase with an interacting polypeptide is measured and a compound that inhibits, promotes or mimics the said interaction is selected, wherein the interacting polypeptide interacts with the hydrophobic pocket of the protein kinase and/or comprises the amino acid sequence Phe/Tyr-Xaa-Xaa-Phe/Tyr. The protein kinase may be PDK1, PKB, SGK or p70 S6 kinase. A method of identifying a compound that modulates the protein kinase activity of a protein kinase having a hydrophobic pocket as defined above, for example PDK1, comprising the steps of (1) determining the effect of a test compound on the protein kinase activity of the said protein kinase, and/or a mutant thereof, and (2) selecting a compound capable of modulating the protein kinase activity of the said protein kinase to different extents towards (i) a substrate that binds to the said hydrophobic pocket of the said protein kinase (hydrophobic pocket-dependent substrate) and (ii) a substrate (such as PKB) that does not bind, or binds to a lesser

extent than the first said substrate (hydrophobic pocket-independent substrate), to the said hydrophobic pocket of the said protein kinase. The protein kinase modulators identified may be used in treatment of cancer and diabetes.

IT 344611-49-0 344611-51-4 346434-35-3

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(substrate peptide for PDK1; method for identifying modulators of protein kinases PDK1, SGK, S6 kinase, PRK2, and protein kinases A, B, and C)

IT 346014-34-4 346014-35-5

RL: PRP (Properties)  
(unclaimed protein sequence; method for identifying modulators of protein kinases PDK1, SGK, S6 kinase, PRK2, and protein kinases A, B, and C)

IT 298278-24-7 345924-22-3 346014-19-5

346014-20-8 346014-22-0 346014-25-3

346014-27-5 346014-28-6 346014-29-7

346014-30-0 346014-36-6 346014-37-7

346014-38-8 346014-39-9 346014-40-2

346014-41-3 346014-42-4 346014-45-7

346014-46-8 346014-47-9 346014-48-0

346014-49-1 346014-50-4 346014-51-5

346014-54-8

RL: PRP (Properties)

(unclaimed sequence; method for identifying modulators of protein kinases PDK1, SGK, S6 kinase, PRK2, and protein kinases A, B, and C)

L5 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 14 Nov 2000

ACCESSION NUMBER: 2000:800873 CAPLUS

DOCUMENT NUMBER: 134:69269

TITLE: Identification of CISK, a new member of the SGK kinase family that promotes IL-3-dependent survival

AUTHOR(S): Liu, Dan; Yang, Xiaohong; Songyang, Zhou

CORPORATE SOURCE: Verna and Marrs Mclean Department of Biochemistry and Molecular Biology, Baylor College of Medicine, Houston, TX, 77030, USA

SOURCE: Current Biology (2000), 10(19), 1233-1236

CODEN: CUBLE2; ISSN: 0960-9822

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The signaling pathways for cell survival are much less well understood than those for apoptosis. Many mammalian cell-survival factors have been identified, either biochem. or from genetic studies in other organisms. Effective genetic methods that allow systematic study of anti-apoptosis genes in mammalian cells remain to be established, however. To achieve this goal, we used a new genetic screening method using enhanced retroviral mutagen (ERM) vectors to identify factors that mediate IL-3-dependent survival of hematopoietic cells. Both known and novel mediators of cell survival were identified, including Bcl-xL, phosphatidylinositol 3-kinase (PI 3-kinase), Akt and cytokine-independent survival kinase (CISK). CISK is a PX-domain-containing serine/threonine kinase homologous to serum- and glucocorticoid-regulated protein kinase (SGK). We showed that CISK acts downstream of the PI 3-kinase cascade in vivo and may function in parallel to Akt by phosphorylating Bad and the transcription factor

FKHRL1. The distinct subcellular localization of CISK, however, suggests that it acts in different signaling cascades from Akt. Our results demonstrate the power of ERM to identify key genes involved in cell-survival signaling. Furthermore, CISK is the first SGK family member that has been shown to promote survival, pointing to the possibility that other SGK family proteins may also function in survival pathways.

IT 315261-70-2

RL: BOC (Biological occurrence); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PROC (Process)

(amino acid sequence; genetic screening of using enhanced retroviral mutagen (ERM) vectors identifies a new SGK family kinase, CISK, that promotes interleukin-dependent hematopoietic cell survival)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 23 Jun 2000

ACCESSION NUMBER: 2000:421165 CAPLUS

DOCUMENT NUMBER: 133:68896

TITLE: Activating serum and glucocorticoid-induced protein kinase and drug screening

INVENTOR(S): Cohen, Philip; Kobayashi, Takayasu; Deak, Maria

PATENT ASSIGNEE(S): The University of Dundee, UK

SOURCE: PCT Int. Appl., 133 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000035946	A1	20000622	WO 1999-GB4232	19991214
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1141003	A1	20011010	EP 1999-961205	19991214
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002533063	T2	20021008	JP 2000-588203	19991214
PRIORITY APPLN. INFO.:			US 1998-112217P	P 19981214
			GB 1999-19676	A 19990819
			WO 1999-GB4232	W 19991214

AB A method of activating serum and glucocorticoid-induced protein kinase (SGK) is provided wherein the SGK is phosphorylated. The SGK may be phosphorylated by PDK1 and/or a preparation containing PDK2 activity. A method

of identifying a compound that modulates the activity of SGK is provided, wherein the activity of SGK is measured by measuring the phosphorylation by SGK of a polypeptide comprising an amino acid sequence corresponding to the consensus sequence (Arg/Lys; preferably Arg)-X-(X/Arg)-X-X-(Ser/Thr)-Z wherein X indicates any amino acid,

X/Arg indicates any amino acid, with a preference for arginine, and Z indicates that the amino acid residue is preferably a hydrophobic residue. The SGK may be activated by phosphorylation. The invention relates to screening methods for finding new drugs or lead compds.

IT 278622-94-9 278622-95-0 278622-97-2

RL: PRP (Properties)

(Unclaimed; activating **serum** and **glucocorticoid**-induced protein kinase and drug screening)

IT 254728-94-4 254728-95-5 254728-96-6

278621-63-9

RL: BOC (Biological occurrence); BSU (Biological study, unclassified);

PRP (Properties); BIOL (Biological study); OCCU (Occurrence)

(amino acid sequence; activating **serum** and **glucocorticoid**-induced protein kinase and drug screening)

IT 278171-75-8 278171-76-9 278171-78-1

278171-80-5 278622-91-6

RL: PRP (Properties)

(unclaimed sequence; activating **serum** and **glucocorticoid**-induced protein kinase and drug screening)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 06 Dec 1999

ACCESSION NUMBER: 1999:768058 CAPLUS

DOCUMENT NUMBER: 132:89869

TITLE: Characterization of the structure and regulation of two novel isoforms of serum- and glucocorticoid-induced protein kinase

AUTHOR(S): Kobayashi, Takayasu; Deak, Maria; Morrice, Nick; Cohen, Philip

CORPORATE SOURCE: MRC Protein Phosphorylation Unit, Department of Biochemistry, University of Dundee, Dundee, DD1 5EH, UK

SOURCE: Biochemical Journal (1999), 344(1), 189-197

CODEN: BIJOAK; ISSN: 0264-6021

PUBLISHER: Portland Press Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The catalytic domain of serum- and glucocorticoid-induced protein kinase (SGK) is 54% identical with protein kinase B (PKB) and, like PKB, is activated in vitro by 3-phosphoinositide-dependent protein kinase-1 (PDK1) and in vivo in response to signals that activate phosphatidylinositol (PI) 3-kinase. Here we identify two novel isoforms of SGK, termed SGK2 and SGK3, whose catalytic domains share 80% amino acid sequence identity with each other and with SGK (renamed SGK1). Like SGK1, the mRNA encoding SGK3 is expressed in all tissues examined, but SGK2 mRNA is only present at significant levels in liver, kidney and pancreas and, at lower levels, in the brain. The levels of SGK2 mRNA in H4IIE cells and SGK3 mRNA in Rat2 fibroblasts are not increased by stimulation with serum or dexamethasone, whereas the level of SGK1 mRNA is increased greatly. SGK2 and SGK3 are activated in vitro by PDK1, albeit more slowly than SGK1, and their activation is accompanied by the phosphorylation of Thr193 and Thr253 resp., the residues equivalent to the Thr in the "activation loop" of PKB that is targeted by PDK1. The PDK1-catalyzed phosphorylation and activation

of SGK2 and SGK3, like SGK1, is greatly potentiated by mutating Ser356 and Ser419 resp. to Asp, these residues being equivalent to the C-terminal phosphorylation site of PKB. Like SGK1, SGK2 and SGK3 are activated 5-fold via a phosphorylation mechanism when cells are exposed to H2O2 but, in contrast with SGK1, activation is only suppressed partially by inhibitors of PI 3-kinase. SGK2 and SGK3 are activated to a smaller extent by insulin-like growth factor-1 (2-fold) than SGK1 (5-fold). Like PKB and SGK1, SGK2 and SGK3 preferentially phosphorylate Ser and Thr residues that lie in Arg-Xaa-Arg-Xaa-Xaa-Ser/Thr motifs.

IT 254728-94-4 254728-95-5 254728-96-6

RL: PRP (Properties)

(amino acid sequence; characterization of structure and regulation of two novel isoforms of **serum-** and **glucocorticoid-induced protein kinase**)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 06 Dec 1999

ACCESSION NUMBER: 1999:766674 CAPLUS

DOCUMENT NUMBER: 132:133015

TITLE: Cloning and Mapping of a Novel Human Serum/Glucocorticoid Regulated Kinase-like Gene, SGK1, to Chromosome 8q12.3-q13.1

AUTHOR(S): Dai, Fangyan; Yu, Long; He, Hua; Zhao, Yong; Yang, Jun; Zhang, Xianning; Zhao, Shouyuan

CORPORATE SOURCE: Institute of Genetics, Fudan University, Shanghai, 200433, Peop. Rep. China

SOURCE: Genomics (1999), 62(1), 95-97  
CODEN: GNMCEP; ISSN: 0888-7543

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Serum/glucocorticoid regulated kinase (sgk) belongs to a newly emerging subfamily of the serine/threonine protein kinase family. Although human SGK shares 98% amino acid identity with rat sgk, their expression levels are regulated differently, which indicates the existence of other SGKs in humans. In this paper, we reported the cloning of human SGK1, which encodes a protein sharing 67 and 66% amino acid identity with rat sgk and human SGK, resp. A 4.4-kb transcript of human SGK1 was detected in 16 human tissues examined and was found to be most abundant in lung. By radiation hybrid mapping, the SGK1 gene was located to human chromosome 8q12.1-q13.1 between markers D8S510 and D8S1797. (c) 1999 Academic Press.

IT 256631-23-9

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; cloning, chromosome mapping, mRNA expression and cDNA sequence of a novel human **serum/ glucocorticoid regulated kinase-like gene, SGK1**)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 23 Jun 1999

ACCESSION NUMBER: 1999:385765 CAPLUS

DOCUMENT NUMBER: 131:168287  
TITLE: Sgk is an aldosterone-induced kinase in the renal collecting duct. Effects on epithelial Na<sup>+</sup> channels  
AUTHOR(S): Naray-Fejes-Toth, Aniko; Canessa, Cecilia; Cleaveland, Emily S.; Aldrich, George; Fejes-Toth, Geza  
CORPORATE SOURCE: Department of Physiology, Dartmouth Medical School, Lebanon, NH, 03756-0001, USA  
SOURCE: Journal of Biological Chemistry (1999), 274(24), 16973-16978  
CODEN: JBCHA3; ISSN: 0021-9258  
PUBLISHER: American Society for Biochemistry and Molecular Biology  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB The early phase of the stimulatory effect of aldosterone on sodium resorption in renal epithelia is thought to involve activation of apical sodium channels. However, the genes initiating this effect are unknown. The authors used a combination of polymerase chain reaction-based subtractive hybridization and differential display techniques to identify aldosterone-regulated immediate early genes in renal mineralocorticoid target cells. The authors report here that aldosterone rapidly increases mRNA levels of a putative Ser/Thr kinase, sgk (or serum- and glucocorticoid-regulated kinase), in its native target cells, i.e. in cortical collecting duct cells. The effect occurs within 30 min of the addition of aldosterone, is mediated through mineralocorticoid receptors, and does not require de novo protein synthesis. The full-length sequences of rabbit and mouse sgk cDNAs were determined. Both cDNAs show significant homol. to rat and human sgk (88-94% at the nucleotide level, and 96-99% at the amino acid level). Coexpression of the mouse sgk in *Xenopus* oocytes with the three subunits of the epithelial Na<sup>+</sup> channel results in a significantly enhanced Na<sup>+</sup> current. These results suggest that sgk is an immediate early aldosterone-induced gene, and this protein kinase plays an important role in the early phase of aldosterone-stimulated Na<sup>+</sup> transport.  
IT 238741-86-1 238741-87-2  
RL: BOC (Biological occurrence); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
(amino acid sequence; aldosterone induction of **Sgk** ( **serum-** and **glucocorticoid-regulated kinase**) in renal collecting duct and **Sgk** effects on sodium channel activity)  
REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT  
L5 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN  
ED Entered STN: 21 Jan 1999  
ACCESSION NUMBER: 1999:42532 CAPLUS  
DOCUMENT NUMBER: 130:106933  
TITLE: A human homolog of the rat serum glucocorticoid-regulated kinase and a cDNA encoding it  
INVENTOR(S): Kumar, Sanjay; Zou, Cheng  
PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA  
SOURCE: Eur. Pat. Appl., 27 pp.

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 889127	A1	19990107	EP 1998-304830	19980618
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CA 2235785	AA	19990101	CA 1998-2235785	19980623
JP 11123086	A2	19990511	JP 1998-186223	19980701
US 2001027184	A1	20011004	US 2001-784249	20010215
PRIORITY APPLN. INFO.:			US 1997-51446P	P 19970701
			US 1997-997212	A 19971223

AB H-SGK2: a human homolog of the rat serum glucocorticoid-regulated serine/threonine kinase is identified and a cDNA encoding it is cloned. The protein may be of use in the treatment of a number of diseases (no data). Preliminary identification of the cDNA was made by searching EST databases for members of the serine/threonine protein kinase family. A pair of partial overlapping clones were identified and primers derived from them were used to obtain a full-length cDNA. The gene was found to be expressed in the hippocampus, osteoblasts, and dendritic cells.

IT 219592-29-7  
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence)  
 (amino acid sequence; human homolog of rat **serum glucocorticoid-regulated kinase** and cDNA encoding it)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 24 Sep 1998

ACCESSION NUMBER: 1998:604791 CAPLUS

DOCUMENT NUMBER: 129:213510

TITLE: The human homolog of the cell volume regulated protein kinase sgk and the gene encoding it

INVENTOR(S): Lang, Florian; Waldegger, Siegfried

PATENT ASSIGNEE(S): Dade Behring Marburg G.m.b.H., Germany

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 861896	A2	19980902	EP 1998-101338	19980127
EP 861896	A3	19991020		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19708173	A1	19980903	DE 1997-19708173	19970228



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CA 2224404	AA	19980828	CA 1998-2224404	19980226
US 6326181	B1	20011204	US 1998-31295	19980226
JP 10248566	A2	19980922	JP 1998-46565	19980227
US 2003003559	A1	20030102	US 2001-39	20011204
US 6855520	B2	20050215		
US 2005181402	A1	20050818	US 2005-44570	20050128
PRIORITY APPLN. INFO.:			DE 1997-19708173	A 19970228
			US 1998-31295	A3 19980226
			US 2001-39	A3 20011204

AB The human gene for the cell volume-regulated kinase *sgk* (serum and glucocorticoid-dependent kinase) is cloned and characterized. The enzyme can be used in the diagnosis and treatment of diseases associated with abnormal changes in cell vols. or macromol. crowding. Genes induced in HepG2 cells under hypertonic and hypotonic conditions were identified by RAP-PCR. A specific transcript that was expressed under hypertonic and hypotonic conditions was further characterized. The sequence of the full-length transcript had a 95% identity to a part of the rat *sgk* gene.

IT 190857-79-5, Protein *sgk* (human protein kinase-like)  
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)  
(amino acid sequence; human homolog of cell volume regulated protein kinase *sgk* and gene encoding it)

IT 212137-20-7  
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)  
(antigenic peptide of *sgk* kinase of human; human homolog of cell volume regulated protein kinase *sgk* and gene encoding it)

L5 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 07 Sep 1998

ACCESSION NUMBER: 1998:565048 CAPLUS

DOCUMENT NUMBER: 129:271364

TITLE: Genomic organization and chromosomal localization of the human SGK protein kinase gene

AUTHOR(S): Waldegger, Siegfried; Erdel, Martin; Nagl, Ulrich O.; Barth, Petra; Raber, Gertraud; Steuer, Silvia; Utermann, Gerd; Paulmichl, Markus; Lang, Florian  
CORPORATE SOURCE: Dep. Physiology I, Univ. Tübingen, Tübingen, D-72076, Germany

SOURCE: Genomics (1998), 51(2), 299-302

CODEN: GNMCEP; ISSN: 0888-7543

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The SGK protein kinase is a novel member of the serine/threonine protein kinase family. Its corresponding gene belongs to the group of immediate-early genes. SGK transcription is controlled by cell volume alterations in different cell lines. To analyze the genomic structure and chromosomal location of the SGK gene, a human P1 clone was isolated by screening a human genomic library with a SGK cDNA probe. This clone was confirmed to encode the authentic SGK gene by the detection of exon-intron structures and the correspondence between the nucleotide sequences of exons and human cDNA. Using this P1 clone as

Searcher : Shears 571-272-2528

a probe for fluorescence in situ hybridization, a single chromosomal locus for SGK was assigned to band 6q23, a region frequently affected by deletion in various human neoplasms. (c) 1998 Academic Press.

IT 190857-79-5, Protein **sgk** (human protein kinase-like)

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; genomic organization and chromosomal

localization of the human **SGK** protein kinase gene)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 15 May 1997

ACCESSION NUMBER: 1997:308821 CAPLUS

DOCUMENT NUMBER: 127:29991

TITLE: Cloning and characterization of a putative human serine/threonine protein kinase transcriptionally modified during anisotonic and isotonic alterations of cell volume

AUTHOR(S): Waldegger, Siegfried; Barth, Petra; Raber, Gertraud; Lang, Florian

CORPORATE SOURCE: Physiologisches Institut I der Eberhard-Karls-Universitat, Tubingen, D-72076, Germany

SOURCE: Proceedings of the National Academy of Sciences of the United States of America (1997), 94(9), 4440-4445

CODEN: PNASA6; ISSN: 0027-8424

PUBLISHER: National Academy of Sciences

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Hepatic metabolism and gene expression are among other regulatory mechanisms controlled by the cellular hydration state, which changes rapidly in response to anisotonicity, concentrative substrate uptake, oxidative stress, and under the influence of hormones such as insulin and glucagon. Differential screening for cell volume sensitive transcripts in a human hepatoma cell line revealed a gene for a putative serine/threonine kinase, h-sgk, which has 98% sequence identity to a serum- and glucocorticoid regulated kinase, sgk, cloned from a rat mammary tumor cell line. H-sgk transcript levels were strongly altered during anisotonic and isotonic cell volume changes. Within 30 min h-sgk RNA was, independent of de novo protein synthesis, induced upon cell shrinkage and, due to a complete stop in h-sgk transcription, reduced upon cell swelling. Comparable changes of sgk transcript levels were observed in a renal epithelial cell line. H-sgk mRNA was detected in all human tissues tested, with the highest levels in pancreas, liver, and heart. The putative serine/threonine protein kinases h-sgk may provide a function link between the cellular hydration state and metabolic control.

IT 190857-79-5, Protein **sgk** (human protein kinase-like)

RL: BOC (Biological occurrence); BSU (Biological study, unclassified);

MFM (Metabolic formation); PRP (Properties); BIOL (Biological study);

FORM (Formation, nonpreparative); OCCU (Occurrence)

(amino acid sequence; putative human serine/threonine protein

kinase transcription regulation during alterations of cell volume and putative kinase cDNA sequence)

REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE

09/868131

RE FORMAT

E1 THROUGH E56 ASSIGNED

FILE 'REGISTRY' ENTERED AT 16:57:49 ON 22 FEB 2006

L6 56 SEA ABB=ON PLU=ON (190857-79-5/BI OR 254728-94-4/BI OR  
254728-95-5/BI OR 254728-96-6/BI OR 868907-66-8/BI OR  
212137-20-7/BI OR 219592-29-7/BI OR 238741-86-1/BI OR  
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346014-51-5/BI OR 346014-54-8/BI OR 346434-35-3/BI OR  
456018-55-6/BI OR 456019-53-7/BI OR 459673-27-9/BI OR  
463985-36-6/BI OR 480564-37-2/BI OR 871134-17-7/BI)

L7 56 L1 AND L6

L7 ANSWER 1 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN 871134-17-7 REGISTRY

CN Kinase (phosphorylating), gene sgk3 protein (human) (9CI) (CA INDEX  
NAME)

OTHER NAMES:

CN 2: PN: WO2005118832 SEQID: 2 claimed protein

CI MAN

SQL 429

SEQ 1 MALKIPAKRI FGDNFDPDFI KQRRAGLNEF IQNLVRYPEL YNHPDVRAFL  
51 QMDSPKHQSD PSEDEDERSS QKLHSTSQNI NLGPGSGNPHA KPTDFDFLKV  
101 IGKGSFGKVL LAKRKLDGKF YAVKVLQKKI VLNRKEQKHI MAERNVLLKN  
151 VKHPFLVGLH YSFQTTEKLY FVLDFVNGGE LFFHLQRERS FPEHRARFYA  
201 AEIASALGYL HSIKIVYRDL KPENILLDSV GHVVLTDGFL CKEGIAISDT  
251 TTTFCGTPEY LAPEVIRKQP YDNTVDWWCL GAVLYEMLYG LPPFYCRDVA  
=====   
301 EMYDNILHKP LSLRPGVSLT AWSILEELLE KDRQNRLGAK EDFLEIQNHP  
351 FFESLSWADL VQKKIPPPFN PNVAGPDDIR NFDTAFTTEET VPYSVCVSSD  
401 YSIVNASVLE ADDAFVGFSY APPSEDLFL  
=====

HITS AT: 252-264, 415-420

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 144:45517

L7 ANSWER 2 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN 868907-66-8 REGISTRY

CN Kinase (phosphorylating) gene sgk protein (human) (9CI) (CA INDEX  
NAME)

OTHER NAMES:

CN 2: PN: WO2005106491 SEQID: 2 claimed protein

Searcher : Shears 571-272-2528

CI MAN  
SQL 431

```

SEQ      1 MTVKTEAAKG TLTYSRMRGM VAILIAFMKQ RRMGLNDFIQ KIANNSYACK
      51 HPEVQSILKI SQPQEPPELMN ANPSPPSPS QQINLGPSSN PHAKPSDFHF
     101 LKVIKGSGFG KVLARHKA EYFYAVKVLQ KKAILKKKEE KHIMSERNVL
     151 LKNVKHPFLV GLHFSFQTAD KLYFVLDYIN GGELFYHLQR ERCFLEPRAR
     201 FYAAEIASAL GYLHSLNIVY RDLKPENILL DSQGHIVLTD FGLCKENIEH
     251 NSTTSTFCGT PEYLAPEVLH KQPYDRTVDW WCLGAVLYEM LYGLPPFYSR
          =====
     301 NTAEMYDNIL NKPLQLKPNI TNSARHLLEG LLQKDRTKRL GAKDDFMEIK
     351 SHVFFSLINW DDLINKKITP PFNPNVSGPN ELRHFDPEFT EEPVPNSIGK
     401 SPDSVLVTAS VKEAAEAFLG FSYAPPTDSF L
          ===

```

HITS AT: 255-267, 418-423

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 144:69837

REFERENCE 2: 143:452921

L7 ANSWER 3 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN 480564-37-2 REGISTRY

CN Serine/threonine protein kinase sgk (human cell line primary culture)  
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 15: PN: EP1486488 TABLE: 8 claimed protein

CN 2366: PN: WO2004079014 TABLE: 4 unclaimed protein

CN 3735: PN: US20040009481 TABLE: 1 claimed protein

CN 379: PN: US20040009481 TABLE: 1 claimed protein

CN GenBank AAD41091

CN GenBank AAD41091 (Translated from: GenBank AF153609)

CI MAN

SQL 431

```

SEQ      1 MTVKTEAAKG TLTYSRMRGM VAILIAFMKQ RRMGLNDFIQ KIANNSYACK
      51 HPEVQSILKI SQPQEPPELMN ANPSPPSPS QQINLGPSSN PHAKPSDFHF
     101 LKVIKGSGFG KVLARHKA EYFYAVKVLQ KKAILKKKEE KHIMSERNVL
     151 LKNVKHPFLV GLHFSFQTAD KLYFVLDYIN GGELFYHLQR ERCFLEPRAR
     201 FYAAEIASAL GYLHSLNIVY RDLKPENILL DSQGHIVLTD FGLCKENIEH
     251 NSTTSTFCGT PEYLAPEVLH KQPYDRTVDW WCLGAVLYEM LYGLPPFYSR
          =====
     301 NTAEMYDNIL NKPLQLKPNI TNSARHLLEG LLQKDRTKRL GAKDDFMEIK
     351 SHVFFSLINW DDLINKKITP PFNPNVSGPN DLRHFDPEFT EEPVPNSIGK
     401 SPDSVLVTAS VKEAAEAFLG FSYAPPTDSF L
          ===

```

HITS AT: 255-267, 418-423

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 142:62692

REFERENCE 2: 141:275706

REFERENCE 3: 141:207207

REFERENCE 4: 140:194433

09/868131

REFERENCE 5: 140:123703

L7 ANSWER 4 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 463985-36-6 REGISTRY  
CN 1: PN: WO02074987 SEQID: 2 unclaimed protein (9CI) (CA INDEX NAME)  
CI MAN  
SQL 431

SEQ 1 MTVKTEAAKG TLTYSRMRGM VAILIAFMKQ RRMGLNDFIQ KIANNSYACK  
51 HPEVQSILKI SQPQEPPELMN ANSPSPSPS QQINLGPSSN PHAKPSDFHF  
101 LKVIKGSFG KVLARHKAEE EVFYAVKVLQ KKAILKKKEE KHIMSERNVL  
151 LKNVKHPFLV GLHFSFQTAD KLYFVLDYIN GGELFYHLQR ERCFLEPRAR  
201 FYAAEIASAL GYLHSLNIVY RDLKPENILL DSQGHIVLTD FGLCKENIEH  
251 NSTTSTFCGT PEYLAPEVLH KQPYDRTVDW WCLGAVLYEM LYGLPPFYSR  
=====

301 NTAEMYDNIL NKPLQLKPNI TNSARHLLEG LLQKDRTKRL GAKDDFMEIK  
351 SHVFFSLINW DDLINKKITP PFNPNVSGPN DLRHFDPEFT EEPVPNSIGK  
401 SPDSVLVTAS VKEAAEAFLG FSYAPPTDSF L  
=== ===

HITS AT: 255-267, 418-423

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 137:274010

L7 ANSWER 5 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 459673-27-9 REGISTRY  
CN Protein kinase (human gene SGK3) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 17: PN: EP1486488 TABLE: 8 claimed protein  
CN 4491: PN: US20040009481 TABLE: 1 claimed protein  
CN GenBank AAF12758  
CN GenBank AAF12758 (Translated from: GenBank AF169035)  
CI MAN  
SQL 429

SEQ 1 MALKIPAKRI FGDNFDPDFI KQRRAGLNEF IQNLVRYPEL YNHPDVRAFL  
51 QMDSPKHQSD PSEDEDERSS QKLHSTSQNI NLGPGSGNPHA KPTDFDFLKV  
101 IGKGSFGKVL LAKRKLDGKF YAVKVLQKKI VLNRKEQKHI MAERNVLLKN  
151 VKHPFLVGLH YSFQTTEKLY FVLDFVNGGE LFFHLQRERS FPEHRARFYA  
201 AEIASALGYL HSIKIVYRDL KPENILLDSV GHVVLTDVGL CKEGIAISDT  
251 TTTFCGTPEY LAPEVIRKQP YDNTVDWWCL GAVLYEMLYG LPPFYCRDVA  
=====

301 EMYDNILHKP LSLRPGVSLT AWSILEELLE KDRQNRLGAK EDFLEIQNHP  
351 FFESLSWADL VQKKIPPPFN PNVAGPDDIR NFDTAFTTEET VPYSVCVSSD  
401 YSIVNASVLE ADDAFVGFSY APPSEDLFL  
=====

HITS AT: 252-264, 415-420

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 142:62692

REFERENCE 2: 140:194431

L7 ANSWER 6 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 456019-53-7 REGISTRY  
CN L-Isoleucine, L-lysyl-L-threonyl-L-phenylalanyl-L-cysteinylglycyl-L-threonyl-L-prolyl-L- $\alpha$ -glutamyl-L-tyrosyl-L-leucyl-L-alanyl-L-

Searcher : Shears 571-272-2528

09/868131

prolyl-L- $\alpha$ -glutamyl-L-valyl-L-arginyl-L-arginyl-L- $\alpha$ -  
glutamyl-L-prolyl-L-arginyl-L-isoleucyl-L-leucyl-L-seryl-L- $\alpha$ -  
glutamyl-L- $\alpha$ -glutamyl-L- $\alpha$ -glutamyl-L-glutaminyl-L- $\alpha$ -  
glutamyl-L-methionyl-L-phenylalanyl-L-arginyl-L- $\alpha$ -aspartyl-L-  
phenylalanyl-L- $\alpha$ -aspartyl-L-tyrosyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 8: PN: US20020123056 SEQID: 33 unclaimed protein

CI MAN

SQL 35

SEQ 1 KTFCTGPEYL APEVRREPRI LSEEEQEMFR DFDYI

=====

HITS AT: 1-13

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 137:215234

L7 ANSWER 7 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN **456018-55-6** REGISTRY

CN Kinase (phosphorylating), gene sgk2 protein (human  $\alpha$ -subunit)  
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2: PN: US20020123056 SEQID: 2 claimed protein

CI MAN

SQL 367

SEQ 1 MNSSPAGTPS PQPSRANGNI NLGPSANPNA QPTDFDFLKV IGKGNYGKVL

51 LAKRKSDGAF YAVKVLQKKS ILKKKEQSHI MAERSVLLKN VRHPFLVGLR

101 YSFQTPEKLY FVL DYVNGGE LFFHLQRERR FLEPRARFYA AEVASAIGYL

151 HSLNIIYRDL KPENILLDCQ GHVVLTD FGL CKEGVEPEDT TSTFCGTPEY

=====

201 LAPEVLRKEP YDRAVDWWCL GAVLYEMLHG LPPFYSQDVS QMYENILHQP

=====

251 LQIPGGRTVA ACDLLQSL LH KDQRQRLGSK ADFLEIKNHV FFSPINWDDL

301 YHKRLTPPFN PNV TGPADLK HFDPEFTQEA VSKSIGCTPD TVASSSGASS

351 AFLGFSYAPE DDDILDC

=====

HITS AT: 192-204, 352-357

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 137:215234

L7 ANSWER 8 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN **346434-35-3** REGISTRY

CN L-Cysteine, L-lysyl-L-threonyl-L-phenylalanyl-L-cysteinyglycyl-L-  
threonyl-L-prolyl-L- $\alpha$ -glutamyl-L-tyrosyl-L-leucyl-L-alanyl-L-  
prolyl-L- $\alpha$ -glutamyl-L-valyl-L-arginyl-L-arginyl-L- $\alpha$ -  
glutamyl-L-prolyl-L-arginyl-L-isoleucyl-L-leucyl-L-seryl-L- $\alpha$ -  
glutamyl-L- $\alpha$ -glutamyl-L- $\alpha$ -glutamyl-L-glutaminyl-L- $\alpha$ -  
glutamyl-L-methionyl-L-phenylalanyl-L-arginyl-L- $\alpha$ -aspartyl-L-  
phenylalanyl-L- $\alpha$ -aspartyl-L-tyrosyl-L-isoleucyl-L-alanyl-L-  
 $\alpha$ -aspartyl-L-tryptophyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 7: PN: WO0144497 PAGE: 130 claimed sequence

CI MAN

SQL 39

09/868131

SEQ 1 KTFCGTPEYL APEVRREPRI LSEEEQEMFR DFDYIADWC

=====

HITS AT: 1-13

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 135:73331

L7 ANSWER 9 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN 346014-54-8 REGISTRY

CN 75: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)

CI MAN

SQL 313

SEQ 1 KVLLGELKGR GEYSAIKALK KDVVLIDDDV ECTMVEKRVL TLAAENPFLT

51 HLICTFQTKD HLFFVMEFLN GGDLMYHIQD KGRFELYRAT FYAAEIMCGL

101 QFLHSGIYY RDLKLDNVLL DRDGHKIAD FGMCKENIFG ESRASTFCGT

=====

151 PDYIAPEILQ GLKYTFSVDW WSFGVLLYEM LIGQSPFHGD DEDELFESIR

=====

201 VDTPHYRPWI TKESKDILEK LFEREPTKRL GMTGNIKIHP FFKTINWTL

251 EKRRLEPPFR PKVKSPRDYS NFDQEFLNEK ARLSYSDKNL IDSMDQSAFA

==

301 GFSFVNPKFE HLL

=====

HITS AT: 145-157, 299-304

REFERENCE 1: 135:73331

L7 ANSWER 10 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN 346014-51-5 REGISTRY

CN 72: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)

CI MAN

SQL 321

SEQ 1 KVMLAERRGS DELYAIKILK KDVIVQDDDV DCTLVEKRVL ALGGRGPGR

51 PHFLTQLHST FQTPDRLYFV MEYVTGGDLM YHIQQLGKFK EPHAIFYAAE

101 IEIGLFFLHN QGIIYRDLKL DNVMLDAEGH IKITDFGMCK ENVFPGTTTR

=

151 TFCGTPDYIA PEIIAYQPYG KSVDWWSFGV LLYEMLAGQP PFDGEDEEEL

=====

201 FQAIMEQTVT YPKSLSREAV AICKGFLTKH PGKRLGSGPD GEPTIRAHGF

251 FRWIDWERLE RLEIPPPFRP RPCGRSGENF DKFFTRAAPA LTPPDRLVLA

301 SIDQADFQGF TYVNPDFVHP D

=====

HITS AT: 150-162, 307-312

REFERENCE 1: 135:73331

L7 ANSWER 11 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN 346014-50-4 REGISTRY

CN 71: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)

CI MAN

SQL 316

SEQ 1 KVMLADRKGT EELYAIKILK KDVVIQDDDV ECTMVEKRVL ALLDKPPFLT

51 QLHSCFQTV D RLYFVMEYVN GGDLMYHIQQ VGKFKEPQAV FYAAEISIGL

101 FFLHKGRIYY RDLKLDNVML DSEGHKIAD FGMCKEHMM D GVTTRTFCGT

=====

Searcher : Shears 571-272-2528

09/868131

151 PDYIAPEIIA YQPYGKSVDW WAYGVLLYEM LAGQPPFDGE DEDELFQSIM  
=====  
201 EHNVSYPKSL SKEAVISCKG LMTKHPAKRL GCGPEGERDV REHAFFRRID  
251 WEKLENREIQ PPFKPKVCGK GAENFDKFFT RGQPVLTTPD QLVIANIDQS  
301 DFEGFSYVNP QFVHPI  
=====

HITS AT: 145-157, 302-307

REFERENCE 1: 135:73331

L7 ANSWER 12 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 346014-49-1 REGISTRY  
CN 70: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)  
CI MAN  
SQL 316

SEQ 1 KVMLSERKGT DELYAVKILK KDVIQDDDDV ECTMVEKRVL ALPGKPPFLT  
51 QLHSCFQTM D RLYFVMEYVN GGDLYMHIQQ VGRFKEPHAV FYAAEIAIGL  
101 FFLQSKGIIY RDLKLDNVML DSEGHKIAD FGMCKENIWD GVTTKTFCGT  
=====

151 PDYIAPEIIA YQPYGKSVDW WAFGVLLYEM LAGQAPFEGE DEDELFQSIM  
=====  
201 EHNVAYPKSM SKEAVAICKG LMTKHGPKRL GCGPEGERDI KEHAFFRYID  
251 WEKLERKIEQ PPYKPKACGR NAENFDRFFT RHPPVLTTPD QEVIRNIDQS  
301 EFEGFSFVNS EFLKPE  
=====

HITS AT: 145-157, 302-307

REFERENCE 1: 135:73331

L7 ANSWER 13 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 346014-48-0 REGISTRY  
CN 69: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)  
CI MAN  
SQL 317

SEQ 1 KVMLSERKGT DELYAVKILK KDVIQDDDDV ECTMVEKRVL ALPGKPPFLT  
51 QLHSCFQTM D RLYFVMEYVN GGDLYMHIQQ VGRFKEPHAV FYAAEIAIGL  
101 FFLQSKGIIY RDLKLDNVML DSEGHKIAD FGMCKENIWD GVTTKTFCGT  
=====

151 PDYIAPEIIA YQPYGKSVDW WAFGVLLYEM LAGQAPFEGE DEDELFQSIM  
=====  
201 EHNVAYPKSM SKEAVAICKG LMTKHGPKRL GCGPEGERDI KEHAFFRYID  
251 WEKLERKIEQ PPYKPKARDK RDTSNFDKEF TRQPVELTPT DKLFIMNLDQ  
301 NEFAGFSYTN PEFVINV  
=====

HITS AT: 145-157, 303-308

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 135:73331

L7 ANSWER 14 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 346014-47-9 REGISTRY  
CN 68: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)  
CI MAN  
SQL 319

SEQ 1 KVLLAKRKSD GAFYAVKVLQ KKSILKKKEQ SHIMAERSVL LKNVRHPFLV

Searcher : Shears 571-272-2528



09/868131

51 GLRYSFQTPE KLYFVLVDYVN GGELFFHLQR ERRFLEPRAR FYAAEVASAI  
101 GYLHSLNIIY RDLKPENILL DCQGHVVLTD FGLCKEGVEP EDTTSTFCGT  
=====

151 PEYLAPEVLR KEPYDRAVDW WCLGAVLYEM LHGLPPFYSQ DVSQMYENIL  
=====

201 HQPLQIPGGR TVAACDLLQS LLHKDQRQRL GSKADFLEIK NHVFFSPINW  
251 DDLYHKRLTP PFNPNVTGPA DLKHFDPEFT QEAVSKSIGC TPDTVASSSG  
301 ASSAFLGFSY APEDDDILD  
=====

HITS AT: 145-157, 305-310

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 135:73331

L7 ANSWER 15 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 346014-46-8 REGISTRY  
CN 67: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)  
CI MAN  
SQL 321

SEQ 1 KVLLAKRKLD GKFYAVKVLQ KKIVLNRKEQ KHIMAERNVL LKNVKHPFLV  
51 GLHYSFQTTE KLYFVLDFVN GGELFFHLQR ERSFPEHRAR FYAAEIASAL  
101 GYLHSIKIVY RDLKPENILL DSVGHVVLTD FGLCKEGIAI SDTTTTFCGT  
=====

151 PEYLAPEVIR KQPYDNTVDW WCLGAVLYEM LYGPFFYCRD VAEMYDNILH  
=====

201 KPLSLRPGVS LTAWSILEEL LEKDRQNR LG AKEDFLEIQN HPFFESLSWA  
251 DLVQKKIPPP FNPNVAGPDD IRNFDTAFTE ETVPYSVCVS SDYSIVNASV  
301 LEADDAFVGF SYAPSEDLF L  
=====

HITS AT: 145-157, 307-312

REFERENCE 1: 135:73331

L7 ANSWER 16 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 346014-45-7 REGISTRY  
CN 66: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)  
CI MAN  
SQL 320

SEQ 1 KVLLARHKAE EVFYAVKVLQ KKAILKKKEE KHIMSERNVL LKNVKHPFLV  
51 GLHFSFQTAD KLYFVLDDING GELFYHLQRE RCFLEPRARF YAAEIASALG  
101 YLHSLNIVYR DLKPENILLD SQGHIVLTDF GLCKENIEHN STTSTFCGTP  
=====

151 EYLAPEVLHK QPYTRAVDWW GLGVLIYEML VGESPPFGDD EEEVFDSIVN  
=====

201 DEVRYPRFLS TEARHLLEGL LQKDRTKRLG AKDDFMEIKS HVFFSLINWD  
251 DLINKKITPP FNPNVSGPND LRHFDPEFTE EPVPNSIGKS PDSVLVTASV  
301 KEAAEAFLGF SYAPPTDSFL  
=====

HITS AT: 144-156, 307-312

REFERENCE 1: 135:73331

L7 ANSWER 17 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 346014-42-4 REGISTRY  
CN 63: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)  
CI MAN

Searcher : Shears 571-272-2528

SQL 317

```

SEQ      1 KVILVREKAS GKYYAMKILK KEVIIAKDEV AHTLTESRVL KNTRHPFLTS
      51 LKYSFQTKDR LCFVMEYVNG GELFFHLSRE RVFSEDRTF YGAEIVSALD
     101 YLHGKIVYRD LKLENLMLDK DGHIKITDFG LCKEGITDAA TMKTFCGTPE
           =====
     151 YLAPEVLEDN DYGAVDWWGL GVVMYEMMCG RLPFYNQDHE KLFELILMED
           =====
     201 IKFPRTLSSD AKSLLSGLLI KDPNKRLLGG PDDAKEIMRH SFFSGVNWQD
     251 VYDKKLVPFF KPQVTSETDT RYFDEEFTAQ TITITPPEKY DEDGMDCMDN
     301 ERRPHFPQFS YSASGRE
           =====

```

HITS AT: 143-155, 306-311

REFERENCE 1: 135:73331

```

L7  ANSWER 18 OF 56  REGISTRY  COPYRIGHT 2006 ACS on STN
RN  346014-41-3  REGISTRY
CN  62: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)
CI  MAN
SQL 317

```

```

SEQ      1 KVILVREKAT GRYIAMKILR KEVIIAKDEV AHTVTESRVL QNTRHPFLTA
      51 LKYAFQTHDR LCFVMEYANG GELFFHLSRE RVFTEERARF YGAEIVSALE
     101 YLHSRDVVYR DIKLENLMLD KDGHIKITDF GLCKEGISDG ATMKTFCGTP
           =====
     151 EYLAPEVLED NDYGRAVDWW GLGVVMYEMM CGRLPFYNQD HERLFELILM
           =====
     201 EEIRFPRTLS PEAKSLLAGL LKKDPKQRLG GGPSDAKEVM EHRFFLSINW
     251 QDVVQKLLP PFKPQVTSEV DTRYFDDEFT AQSITITPPD RYDSLGLLEL
     301 DQRTHFPPQS YSASIRE
           =====

```

HITS AT: 144-156, 306-311

REFERENCE 1: 135:73331

```

L7  ANSWER 19 OF 56  REGISTRY  COPYRIGHT 2006 ACS on STN
RN  346014-40-2  REGISTRY
CN  61: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)
CI  MAN
SQL 318

```

```

SEQ      1 KVILVKEKAT GRYIAMKILK KEVIVAKDEV AHTLTENRVL QNSRHPFLTA
      51 LKYSFQTHDR LCFVMEYANG GELFFHLSRE RVFSEDRARF YGAEIVSALD
     101 YLHSEKNVVY RDLKLENLML DKDGHIKITD FGLCKEGIKD GATMKTFCGT
           =====
     151 PEYLAPEVLE DNDYGRAVDW WGLGVVMYEM MCGRLPFYNQ DHEKLFELIL
           =====
     201 MEEIRFPRTL GPEAKSLLSG LLKKDPKQRL GGGSEDAKEI MQHRFFAGIV
     251 WQHVYEKKLS PPFKPQVTSE TDRYFDDEFT TAQMITITPP DQDDSMECVD
     301 SERRPHFPQF SYSASSTA
           =====

```

HITS AT: 145-157, 307-312

REFERENCE 1: 135:73331

```

L7  ANSWER 20 OF 56  REGISTRY  COPYRIGHT 2006 ACS on STN
RN  346014-39-9  REGISTRY
CN  60: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)

```

CI MAN  
SQL 325

SEQ 1 KVFLVRKAGG HDAGKLYAMK VLRKAALVQR AKTQEHTRTE RSVLELVRQA  
51 PFLVTLHYAF QTDAKLHLIL DYVSGGEMFT HLYQRQYFKE AEVRVYGGEI  
101 VLALEHLHKL GIIYRDLKLE NVLLDSEghi VLTDFGLSKE FLTEEKERTF  
151 SFCGTIEYMA PEIIRSKTGH GKAVDWWSLG ILLFELLTGA SPFTLEGERN  
201 TQAEVSRRL KCSPPFPRI GPVAQDLLQR LLCKDPKKRL GAGPQGAQEV  
251 RNHPFFQGLD WVALAARKIP APFRPQIRSE LDVGNFAEEF TRLEPVYSPP  
301 GSPPPGDPRI FQGYSFVAPS ILFDH

=====

HITS AT: 311-316

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 135:73331

L7 ANSWER 21 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 346014-38-8 REGISTRY  
CN 59: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)  
CI MAN  
SQL 324

SEQ 1 KVFLVRKISG HDTGKLYAMK VLKKATIVQK AKTTEHTRTE RQVLEHIRQS  
51 PFLVTLHYAF QTETKLLILD YINGGELFTH LSQRERFTEH EVQIYVGEIV  
101 LALEHLHKL GIIYRDLKLE NVLLDSEGHV VLTDFGLSKEF VADETERAYS  
151 FCGTIEYMAP DIVRGGDSGH DKAVDWWSLG VLMYELLTGA SPFTVDGEKN  
201 SQAEISRRL KSEPPYPQEM SALAKDLIQR LLMKDPKKRL GCGPRDAEI  
251 KEHLFFQKIN WDDLAACKVP APFKPVIRDE LDVSNFAEEF TEMDPTYSPA  
301 ALPQSSEKLF QGYSFVAPSI LFKR

= =====

HITS AT: 310-315

REFERENCE 1: 135:73331

L7 ANSWER 22 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 346014-37-7 REGISTRY  
CN 58: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)  
CI MAN  
SQL 316

SEQ 1 KVFLVRKVKG SDAGQLYAMK VLKKATLKVR DRVRSKMED ILAEVNHPFI  
51 VKLHYAFQTE GKLYLILDFL RGGDLFTRL KEVMFTEEDV KFYLAELALA  
101 LDHLHSLGII YRDLKPENIL LDEEGHIKIT DFGLSKEAID HDKRAYSFCG  
151 TIEYMAPEVV NRRGHTQSAD WWSFGVLMFE MLTGSLPFQG KDRKETMALI  
201 LKAKLGMPQF LSGEAQSLLR ALFKRNPENR LGAGIDGVEE IKRHPFFVTI  
251 DWNTLYRKEI KPPFKPALGR PEDTFHFDPE FTARTPTDSP GVPPSANAHH  
301 LFRGFSFVAS SLIQEP

=====

HITS AT: 302-307

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 135:73331

L7 ANSWER 23 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 346014-36-6 REGISTRY  
CN 56: PN: WO0144497 FIGURE: 16 unclaimed sequence (9CI) (CA INDEX NAME)  
CI MAN

SQL 315

```

SEQ      1 KVFLVKKISG SDARQLYAMK VLKKATLKVR DRVRTKMERD ILVEVNHPFI
      51 VKLHYAFQTE GKLYLILDFL RGGDLFTRL S KEVMFTEEDV KFYLAELALA
     101 LDHLHSLGII YRDLKPENIL LDEEGHIKLT DFGLSKESID HEKKAYSFCG
     151 TVEYMAPEVV NRRGHTQSAD WWSFGVLMFE MLTGTLPPFQG KDRKETMTMI
     201 LKAKLGMPQF LSPEAQSLLR MLFKRNPANR LGAGPDGVEE IKRHSFFSTI
     251 DWNKLYRREI HPPFKPATGR PEDTFYFDPE FTAKTPKDSP GIPPSANAHQ
     301 LFRGFSFVAI TSDDE

```

=====

HITS AT: 302-307

REFERENCE 1: 135:73331

```

L7  ANSWER 24 OF 56  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   346014-35-5  REGISTRY
CN   55: PN: WO0144497 FIGURE: 16 unclaimed protein (9CI)  (CA INDEX NAME)
CI   MAN
SQL  317

```

```

SEQ      1 KVFQVRKVQG TNLGKIYAMK VLRKAKIVRN AKDTAHTRAE RNILESVKHP
      51 FIVELAYAFT GGKLYLILEC LSGGELFTHL EREGIFLED T ACFYLAELITL
     101 ALGHLHSQGI IYRDLKPENI MLSSQGHKIL TDFGLCKESI HEGAVTHTFC
                                     =====
     151 GTIEYMAPEI LVRSGHNRAV DWWSLGALMY DMLTGSPFFT AENRKKTMKD
                                     =====
     201 IIRGKLALPP YLTPDARDLV KKFLKRNP SQ RIGGGPGDAA DVQRHPFFRH
     251 MNWDDLLAWR VDPPFRPCLQ SEEDVSQFDT RFTRQTPVDS PDDTALSES
     301 NQAFLGFTYV APSVLDS

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=====

HITS AT: 147-159, 304-309

REFERENCE 1: 135:73331

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L7  ANSWER 25 OF 56  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   346014-34-4  REGISTRY
CN   54: PN: WO0144497 FIGURE: 16 unclaimed protein (9CI)  (CA INDEX NAME)
CI   MAN
SQL  318

```

```

SEQ      1 KVFQVRKVTG ANTGKIFAMK VLKKAMIVRN AKDTAHTKAE RNILEEVKHP
      51 FIVDLIYAFQ TGGKLYLILE YLSGGELFMQ LEREGIFMED TACFYLAEIS
     101 MALGHLHQKG IYRDLKPEN IMLNHQGHVK LTDFGLCKES IHDGTVTHTF
                                     =====
     151 CGTIEYMAPE ILMRSGHNRA VDWSLGALM YDMLTGAPPF TGENRKKTID
                                     =====
     201 KILCKLNL P PYLTQEARDL LKKLLKR NAA SRLGAGPGDA GEVQAHPFFR
     251 HINWEELLAR KVEPPFKPLL QSEEDVSQFD SKFTRQTPVD SPDDSTLSES
     301 ANQVFLGFTY VAPSVLES

```

=====

HITS AT: 148-160, 305-310

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 135:73331

```

L7  ANSWER 26 OF 56  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   346014-30-0  REGISTRY
CN   41: PN: WO0144497 FIGURE: 15 unclaimed sequence (9CI)  (CA INDEX NAME)

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CI MAN  
SQL 373

SEQ 1 DSASSEPVGI YQGFEEKTGV AGEDMQDNSG TYGKIWEGSS KCNINNFIFH  
51 KVLGKGSFGK VLLGELKGRG EYSIKALKKD VVLIDDDVEC TMVEKRVLT  
101 AAENPFLTHL ICTFQTKDHL FFVMEFLNGG DLMYHIQDKG RFELYRATFY  
151 AAEIMCGLQF LHSKGIIYRD LKLDNVLLDR DGHIKIADFG MCKENIFGES  
201 RASTFCGTPD YIAPEILQGL KYTFSVDWWS FGVLLYEMLI GQSPFHGDDE  
=====

251 DELFESIRVD TPHYPRWITK ESKDILEKLF EREPTKRLGM TGNIKIHPFH  
301 KTINWTLLEK RRLEPPFRPK VKSPRDYSNF DQEFLENEKAR LSYSDKNLID  
351 SMDQSAFAGF SFVNPKEHL LED

HITS AT: 203-215, 357-362

REFERENCE 1: 135:73331

L7 ANSWER 27 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 346014-29-7 REGISTRY  
CN 40: PN: WO0144497 FIGURE: 15 unclaimed sequence (9CI) (CA INDEX NAME)  
CI MAN  
SQL 378

SEQ 1 EGDEEGNMEL RQKFEEKALG PAGNKVISPS EDRKQPSNNL DRVKLTDNF  
51 LMVLGKGSFG KVMLADRKT EELYAIKILK KDVVIQDDDV ECTMVEKRVL  
101 ALLDKPPFLT QLHSCFQTV D RLYFVMEYVN GGDLMYHIQQ VGKFKEPQAV  
151 FYAAEISIGL FYLHSLDLIY RDLKPENLLI DQQGYIQVTD FGFAKRVKGR  
201 TWTLCGTPEY LAPEIILSKG YNKAVDWWAL GVLIYEMAAG YPPFFADQPI  
251 QIYEKIVSGK VRFPSHFSSE AVSICKGLMT KHPAKRLGCG PEGERDVREH  
301 AFFRRIDWEK LENREIQPPF KPKVCGKGAE NFDKFFTRGQ PVLTPPDQLV  
351 IANIDQSDFE GFSYVNPQFV HPILQSAV

HITS AT: 359-364

REFERENCE 1: 135:73331

L7 ANSWER 28 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 346014-28-6 REGISTRY  
CN 39: PN: WO0144497 FIGURE: 15 unclaimed sequence (9CI) (CA INDEX NAME)  
CI MAN  
SQL 530

SEQ 1 QTEEVSIKEI AITHHVKEGH EKADPSQFEL LKVLGQGSFG KVFLVKKISG  
51 SDARQLYAMK VLKKATLKVR DRVRTKMERD ILVEVNHPFI VKLHYAFQTE  
101 GKLYLILDFL RGGDLFTRL S KEVMFTEEDV KFYLAELALA LDHLHSLGII  
151 YRDLKPENIL LDEEGHIKLT DFGLSKESID HEKKAYSFCG TVEYMAPEV  
201 NRRGHTQSAD WWSFGVLMFE MLTGTLPPFQG KDRKETMTMI LKAKLGMPQF  
251 LSPEAQSLLR MLFKRNPANR LGAGPDGVEE IKRHSFFSTI DWNKLYRREI  
301 HPPFKPATGR PEDTFYFDPE FTAKTPKDSP GIPPSANAHQ LFRGFSFVAI  
=====

351 TSDDDESQAMQ TVGVHSIVQQ LHRNSIQFTD GYEVKEDIGV GSYSVCKRCI  
401 HKATNMEFAV KIIDKSKRDP TEEIEILLRY GQHPNIITLK DVYDDGKYVY  
451 VVTELMKGGE LLDKILRQKF FSEREASAVL FTITKTVEYL HAQGVVHRDL  
501 KPSNILYVDE SGNPESIRIC DFGFAQLRA

HITS AT: 342-347

REFERENCE 1: 135:73331

L7 ANSWER 29 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN 346014-27-5 REGISTRY  
 CN 38: PN: WO0144497 FIGURE: 15 unclaimed sequence (9CI) (CA INDEX NAME)  
 CI MAN  
 SQL 471

SEQ 1 DHGGVGPYEL GMEHCEKFEI SETSVNRGPE KIRPECFELL RVLGKGGYGK  
 51 VFQVRKVTGA NTGKIFAMKV LKKAMIVRNA KDTAHTKAER NILEEVKHPF  
 101 IVDLIYAFQT GGLYLYLILEY LSGGELFMQL EREGIFMEDT ACFYLAEISM  
 151 ALGHLHQKGI IYRDLKPENI MLNHQGHVKL TDFGLCKESI HDGTVTHTFC  
 =====  
 201 GTIEYMAPEI LMRSGHNRAV DWWSLGALMY DMLTGAPPFT GENRKKKTIDK  
 =====  
 251 ILKCKLNLPP YLTQEARDLL KKLLKRNAAS RLGAGPGDAG EVQAHPPFFRH  
 301 INWEELLARK VEPFFKPLLQ SEEDVSQFDS KFTRQTPVDS PDDSTLSESA  
 351 NQVFLGFTYV APSVLESVKE KFSFEPKIRS PRRFIGSPRT PVSPVKFSPG  
 =====  
 401 DFWGRGASAS TANPQTPVEY PMETSGIEQM DVTMSGEASA PLPIRQPNNG  
 451 PYKKQAFPMI SKRPEHLRMN L

HITS AT: 197-209, 354-359

REFERENCE 1: 135:73331

L7 ANSWER 30 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 346014-25-3 REGISTRY  
 CN 36: PN: WO0144497 FIGURE: 15 unclaimed sequence (9CI) (CA INDEX NAME)  
 CI MAN  
 SQL 373

SEQ 1 KISQPQEPPEL MNANPSPPPS PSQQINLGPS SNPHAKPSDF HFLKVIGKGS  
 51 FGKVLARHK AEEVFYAVKV LQKKAILKKK EEKHIMSERN VLLKNVKKHPF  
 101 LVGLHFSFQT ADKLYFVLDY INGGEFYHL QRERCFLEPR ARFYAAEIAS  
 151 ALGYLHSLNI VYRDLKPENI LLDSQGHIVL TDFGLCKENI EHNSTTSTFC  
 =====  
 201 GTPEYLAPEV LHKQPYDRTV DWWCLGAVLY EMLYGLPPFY SRNTAEMYDN  
 =====  
 251 ILNKPLQLKP NITNSARHLL ELLQKDRTK RLGAKDDFME IKSHVFFSLI  
 301 NWDDLINKKI TPPFNPNVSG PNELRHFDPE FTEEPVPNSI GKSPDSVLVT  
 351 ASVKEAAEF LGFSYAPPTD SFL  
 = =====

HITS AT: 197-209, 360-365

REFERENCE 1: 135:73331

L7 ANSWER 31 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 346014-22-0 REGISTRY  
 CN 26: PN: WO0144497 FIGURE: 7 unclaimed sequence (9CI) (CA INDEX NAME)  
 CI MAN  
 SQL 75

SEQ 1 RDVREHAFFR RIDWEKLENR EIQPPFKPKV CGKAENFDK FFTRGQPMLT  
 51 PPDQLVIANI DQSDFEFGFSY VNPQF  
 =====

HITS AT: 65-70

REFERENCE 1: 135:73331

L7 ANSWER 32 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 346014-20-8 REGISTRY  
 CN 24: PN: WO0144497 FIGURE: 7 unclaimed sequence (9CI) (CA INDEX NAME)

CI MAN  
SQL 82

SEQ 1 MEIKSHVFFS LIKWDDLINK KITPPFNPNV SGPNELRHFD PEFTEEPVPN  
51 SIGKSPDSVL VTASVKEAAE AFLGFSYAPP TD  
=====

HITS AT: 72-77

REFERENCE 1: 135:73331

L7 ANSWER 33 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 346014-19-5 REGISTRY  
CN 23: PN: WO0144497 FIGURE: 7 unclaimed sequence (9CI) (CA INDEX NAME)  
CI MAN  
SQL 75

SEQ 1 GEVQAHPFFR HINWEELLAR KVEPPFKPLL QSEEDVSQFD SKFTRQTPVD  
51 SPDDSTLSES ANQVFLGFTY VAPSV  
=====

HITS AT: 65-70

REFERENCE 1: 135:73331

L7 ANSWER 34 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 345924-22-3 REGISTRY  
CN L-Valine, L-seryl-L- $\alpha$ -glutamyl-L-seryl-L-alanyl-L-asparaginyL-L-glutaminyL-L-valyl-L-phenylalanyl-L-leucylglycyl-L-phenylalanyl-L-threonyL-L-tyrosyl-L-valyl-L-alanyl-L-prolyl-L-seryl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 14: PN: WO03104481 PAGE: 43 unclaimed sequence  
CN 2: PN: WO0144497 PAGE: 72 unclaimed sequence  
SQL 18

SEQ 1 SESANQVFLG FTYVAPSV  
=== ===

HITS AT: 8-13

REFERENCE 1: 140:37976

REFERENCE 2: 135:73331

L7 ANSWER 35 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 344611-51-4 REGISTRY  
CN L-Arginine, L-lysyl-L-threonyL-L-phenylalanyl-L-cysteinyLglycyl-L-threonyL-L-prolyl-L- $\alpha$ -glutamyl-L-tyrosyl-L-leucyl-L-alanyl-L-prolyl-L- $\alpha$ -glutamyl-L-valyl-L-arginyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 19: PN: WO03104481 PAGE: 59 unclaimed sequence  
CN 83: PN: WO0144497 PAGE: 131 claimed protein  
SQL 16

SEQ 1 KTF CGTPEYL APEVRR  
=====

HITS AT: 1-13

REFERENCE 1: 140:37976

REFERENCE 2: 135:73331

L7 ANSWER 36 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 344611-49-0 REGISTRY  
 CN L-Valine, L-lysyl-L-threonyl-L-phenylalanyl-L-cysteinylglycyl-L-threonyl-L-prolyl-L- $\alpha$ -glutamyl-L-tyrosyl-L-leucyl-L-alanyl-L-prolyl-L- $\alpha$ -glutamyl- (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 81: PN: WO0144497 PAGE: 130 claimed protein  
 SQL 14

SEQ 1 KTFCGTPEYL APEV  
 =====

HITS AT: 1-13

REFERENCE 1: 135:73331

L7 ANSWER 37 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 315261-70-2 REGISTRY  
 CN Kinase (phosphorylating), protein, CISK (Mus musculus 32D myeloid progenitor cell gene Cisk) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN GenBank AAG34115  
 CN GenBank AAG34115 (Translated from: GenBank AF312007)  
 CN Serine/threonine protein kinase CISK (mouse 32D myeloid progenitor cell gene Cisk)  
 CI MAN  
 SQL 496

SEQ 1 MQRDCIMDYK ESCPSVSIPS SDEHREKKKR FTVYKVLVSV GRSEWFVFRR  
 51 YAEFDKLYNS LKKQFPAMAL KIPAKRIFGD NFDPDFIKQR RAGLNEFIQN  
 101 LVRYPELYNH PDVRAFLQMD SPRHQSDPSE DEDERSTSKP HSTSRNINLG  
 151 PTGNPHAKPT DFDLKVIGK GSFGKVLLAK RKLDGKFYAV KVLQKKIVLN  
 201 RKEQKHIMAE RNVLLKNVKH PFLVGLHYSF QTTEKLYFVL DFNNGGELFF  
 251 HLQERSFPPE PRARFYAAEI ASALGYLHSI KIVYRDLKPE NILLDSMGHV  
 301 VLTDFGLCKE GIAISDTTTT FCGTPEYLAP EVIRKQPYDN TVDWWCLGAV  
 == =====  
 351 LYEMLYGLPP FYCRDVAEMY DNILHKPLNL RPGVSLTAWs ILEELLEKNR  
 401 QNRLGAKEDF LEIQNHPPFE SLSWTDLVQK KIPPPFNPNV AGPDDIRNFD  
 451 AVFTEETVPY SVCVSSDYSI VNASVLEADD AFGVGSYAPP SEDLFL  
 =====

HITS AT: 319-331, 482-487

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 134:69269

L7 ANSWER 38 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 298278-24-7 REGISTRY  
 CN 11: PN: WO0056864 FIGURE: 1 unclaimed protein (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 22: PN: WO0144497 FIGURE: 7 unclaimed protein  
 CI MAN  
 SQL 80

SEQ 1 KEIMQHRFFA GIVWQHVEYK KLSPPFKPQV TSETDTRYFD EEFTAQMITI  
 51 TPPDQDDSME CVDSERRPHF PQFSYSASTA  
 = =====

HITS AT: 70-75



REFERENCE 1: 135:73331

REFERENCE 2: 133:278041

L7 ANSWER 39 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 278622-97-2 REGISTRY  
 CN 80: PN: WO0035946 FIGURE: 13 unclaimed protein (9CI) (CA INDEX NAME)  
 CI MAN  
 SQL 427

SEQ 1 MALKIPAKRI FGDNFDPDFI KQRRAGLNEF IQNLVRYPEL YNHPDVRAFL  
 51 QMDSPKHQSD PSEDEDERSS QKLHSTSONI NLGPSGNPHA KPTDFDFLKV  
 101 IGKGSFGKVL LAKRKLDGKF YAVKVLQKKI VLNRKEQKHI MAERNVLLKN  
 151 VKHPFLVGLH YSFQTEKLFV LDFVNGGELF FHLQRERSFP DHRARFYAAE  
 201 IASALGYLHS IKIVYRDLKP ENILLDSVGH VVLTDFGLCK EGAISDTT  
 251 TFCGTPEYLA PEVIRKQPYD NTVDWWCLGA VLYEMLYGLP PFYCRDVAEM  
 =====  
 301 YDNILHKPLS LRPGVSLTAW SILEELLEKD RQNRLGAKED FLEIQNHPPF  
 351 ESLSWADLVQ KKIPPPFNPN VAGPDDIRNF DTAFTETVP YSVCVSSDYS  
 401 IVNASVLEAD DAFVGFSYAP PSEDLFL  
 =====

HITS AT: 250-262, 413-418

REFERENCE 1: 133:68896

L7 ANSWER 40 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 278622-95-0 REGISTRY  
 CN 78: PN: WO0035946 FIGURE: 13 unclaimed protein (9CI) (CA INDEX NAME)  
 CI MAN  
 SQL 426

SEQ 1 MQGLLTSGRK PSGGGRCTGR GGWRGQWCLK PWMGGADPPT PTLSCLLLPV  
 51 PPELPDHCYR MNSSPAGTPS PQPSRANGNI NLGPSANPNA QPTDFDELKV  
 101 IGKGNYGKVL LAKRKSDGAF YAVKVLQKKS ILKNKEQHIM AERSVLLKNV  
 151 RHPFLVGLRY SFQTPEKLYF VLLYVNGGEL EFHLQRERRF LEPRARFYAA  
 201 EVASAIGYLH SLNIIYRDLK PENILLDCQG HVVLTDFGLC KEGVEPEDTT  
 251 STFCGTPEYL APEVLRKEPY DRAVDWWCLG AVLYFMLHGL PPFYSQDVQS  
 =====  
 301 MYENILHQPL QIPGGRTVAA CDLLQSLCHK DQRQRLGSKA DFLEIKNHVF  
 351 FSPINWDDLY HKRLTPPFNP NVTGPADLKH FDPEFTQEA V SKSIGCTPDT  
 401 VASSSGASSA FLGESYAPED DDILDC

HITS AT: 251-263

REFERENCE 1: 133:68896

L7 ANSWER 41 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 278622-94-9 REGISTRY  
 CN 77: PN: WO0035946 FIGURE: 13 unclaimed protein (9CI) (CA INDEX NAME)  
 CI MAN  
 SQL 429

SEQ 1 MTVKTEAAKG TLTYSRMRGM VAILIAFMKQ RRMGLNDEIQ KIANNZYACK  
 51 HPEVQSLLKI SQPQEPPELMN ANSPPPSPQ QINLGPSNP HAKPSDFHFL  
 101 KVIGKGSFGK VLLARHKAEE VFYAVKVLQK KAILKKKEKH IMSENVLLK  
 151 NVKHPFLVGL HFSFQTADKL YFVLDYINGG FLFYHLQRER CFLEPARARF  
 201 YAAEIASALG YLHSLNIVYR DLKENILLDS QGHIVLTDFG LCKENIEHNS  
 251 TTSTFCGTPE YLAPEVLHKQ PYDRTVDWWC LGAVLYFMLY GLPPFYSRNT  
 =====

09/868131

301 AFMYDNILNK PLQLKPNITN SARHLLEGLL QKDRTKRLGA KDDFMEIKSH  
351 VFFSLINWDD LINKKITPPF NPNVSGPNEL RHFDPFETEE PVPNSIGKSP  
401 DSVLVTASVK EAAEAFLGES YAPPTDSFL  
HITS AT: 253-265

REFERENCE 1: 133:68896

L7 ANSWER 42 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 278622-91-6 REGISTRY  
CN 48: PN: WO0035946 FIGURE: 11 unclaimed sequence (9CI) (CA INDEX NAME)  
CI MAN  
SQL 368

SEQ 1 MNSSPAGTSP PQPSRANGNI NLGPSANPNA QPTDFDFLKV IGKGNYGKVL  
51 LAKRKSDGAF YAVKVLQKKS ILKKKEQSHI MAERSVLLKN VRHPFLVGLR  
101 YSFQTPEKLY FVLDYVNGGE LFFHLQRERR FLEPRARFYA AEVASAIGYL  
151 HSLNIIYRDL KPENILLDCQ GHVVLTD FGL CKEGVEPEDT TSTFCGTPEY  
=====

201 LAPEVLRKEP YDRAVDWWCL GAVLYEMLHG LPPFYSQDVS QMYENILHQP  
=====  
251 LQIPGGRTVA ACDLLQSL LH KDQRQLGSK ADFLEIKNHV FFSPINWDDL  
301 YHKRLTPPFN PNVTGPADLK HFDPEFTQEA VSKSIGCTPD TVASSSGASS  
351 AFLGFSYAPE DDDILDCA  
=====

HITS AT: 192-204, 352-357

REFERENCE 1: 133:68896

L7 ANSWER 43 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 278621-63-9 REGISTRY  
CN Kinase (phosphorylating), gene sgk protein (human isoenzyme  
SGK2 $\beta$ ) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 2: PN: WO0035946 PAGE: 6 claimed protein  
CI MAN  
SQL 427

SEQ 1 MQGLLTSGRK PSGGGRCTGR GGWRGQWCLK PWMGGADPPT PTLSCLLLPV  
51 PPELPDHCYR MNSSPAGTSP PQPSRANGNI NLGPSANPNA QPTDFDFLKV  
101 IGKGNYGKVL LAKRKSDGAF YAVKVLQKKS ILKKKEQSHI MAERSVLLKN  
151 VRHPFLVGLR YSFQTPEKLY FVLDYVNGGE LFFHLQRERR FLEPRARFYA  
201 AEVASAIGYL HSLNIIYRDL KPENILLDCQ GHVVLTD FGL CKEGVEPEDT  
251 TSTFCGTPEY LAPEVLRKEP YDRAVDWWCL GAVLYEMLHG LPPFYSQDVS  
=====

301 QMYENILHQP LQIPGGRTVA ACDLLQSL LH KDQRQLGSK ADFLEIKNHV  
351 FFSPINWDDL YHKRLTPPFN PNVTGPADLK HFDPEFTQEA VSKSIGCTPD  
401 TVASSSGASS AFLGFSYAPE DDDILDCA  
=====

HITS AT: 252-264, 412-417

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 133:68896

L7 ANSWER 44 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 278171-80-5 REGISTRY  
CN L-Proline, L-arginyl-L-alanyl-L-seryl-L-threonyl-L-phenylalanyl-L-  
cysteinylglycyl-L-threonyl-L-prolyl-L- $\alpha$ -aspartyl-L-tyrosyl-L-  
isoleucyl-L-alanyl-L-prolyl-L- $\alpha$ -glutamyl-L-phenylalanyl-L-

Searcher : Shears 571-272-2528

09/868131

alanylglycyl-L-phenylalanyl-L-seryl-L-phenylalanyl-L-valyl-L-asparaginyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 46: PN: WO0035946 FIGURE: 1 unclaimed sequence  
SQL 24

SEQ 1 RASTFCGTPD YIAPEFAGFS FVNP

=====

HITS AT: 3-21

REFERENCE 1: 133:68896

L7 ANSWER 45 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN 278171-78-1 REGISTRY

CN L-Proline, L-valyl-L-threonyl-L-histidyl-L-threonyl-L-phenylalanyl-L-cysteinylglycyl-L-threonyl-L-isoleucyl-L- $\alpha$ -glutamyl-L-tyrosyl-L-methionyl-L-alanyl-L-prolyl-L- $\alpha$ -glutamyl-L-phenylalanyl-L-leucylglycyl-L-phenylalanyl-L-threonyl-L-tyrosyl-L-valyl-L-alanyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 45: PN: WO0035946 FIGURE: 1 unclaimed sequence  
SQL 24

SEQ 1 VTHTFCGTIE YMAPEFLGFT YVAP

=====

HITS AT: 3-21

REFERENCE 1: 133:68896

L7 ANSWER 46 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN 278171-76-9 REGISTRY

CN L-Serine, L-threonyl-L-methionyl-L-lysyl-L-threonyl-L-phenylalanyl-L-cysteinylglycyl-L-threonyl-L-prolyl-L- $\alpha$ -glutamyl-L-tyrosyl-L-leucyl-L-alanyl-L-prolyl-L- $\alpha$ -glutamyl-L-phenylalanyl-L-prolyl-L-glutamyl-L-phenylalanyl-L-seryl-L-tyrosyl-L-seryl-L-alanyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 44: PN: WO0035946 FIGURE: 1 unclaimed sequence  
SQL 24

SEQ 1 TMKTFCGTPE YLAPEFPQFS YSAS

=====

HITS AT: 3-21

REFERENCE 1: 133:68896

L7 ANSWER 47 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN 278171-75-8 REGISTRY

CN L-Proline, L-threonyl-L-threonyl-L-seryl-L-threonyl-L-phenylalanyl-L-cysteinylglycyl-L-threonyl-L-prolyl-L- $\alpha$ -glutamyl-L-tyrosyl-L-leucyl-L-alanyl-L-prolyl-L- $\alpha$ -glutamyl-L-phenylalanyl-L-leucylglycyl-L-phenylalanyl-L-seryl-L-tyrosyl-L-alanyl-L-prolyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 43: PN: WO0035946 FIGURE: 1 unclaimed sequence  
SQL 24

SEQ 1 TTSTFCGTPE YLAPEFLGFS YAPP

=====

HITS AT: 3-21

REFERENCE 1: 133:68896

L7 ANSWER 48 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 256631-23-9 REGISTRY  
 CN Protein SGK1 (serum/glucocorticoid regulated kinase-like) (human clone DF004 gene SGK1) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 1025: PN: WO2004079014 TABLE: 3 unclaimed protein  
 CN 22: PN: WO2004065577 PAGE: 120 claimed protein  
 CN GenBank AAF27051  
 CN GenBank AAF27051 (Translated from: GenBank AF085233)  
 CN SGK kinase-like protein SGK1 (human clone DF004 gene SGK1)  
 CI MAN  
 SQL 496

```

SEQ      1 MQRDHTMDYK ESCPSVSIPS SDEHREKKKR FTVYKVLVSV GRSEWFVFRR
          51 YAEVDKLYNT LKKQFPAMAL KIPAKRIFGD NFDPDFIKQR RAGLNEFIQN
        101 LVRYPELYNH PDVRAFLQMD SPKHQSGPSE DEDERSSQKL HSTSQNINLG
        151 PSGNPHAKPT DFDLKVIGK GSFGKVLLAK RKLDGKVYAV KVLQKKIVLN
        201 RKEQKHIMAE RNVLLKNVKH PFLVGLHYSF QTTEKLYFVL DFNNGGELFF
        251 HLQERSFPPE HRARFYAAEI ASALGYLHSI KIVYRDLKPE NILVDSVGHV
        301 VLTDFGLCKE GIAISDTTTT FCGTPEYLAP EVIRKQPYDN TVDWWCLGAV
              == ===== =
        351 LYEMLYGLPP FYCRDVAEMY DNILHKPLSL RPGVSLRAWS ILEELLEKDR
        401 QNRLGAKEDF LEIQNHPPFE SLSWADLVQK KIPPPFNPNV AGPDDIRNFD
        451 TAFTEETVPY SVCVSSDYSI VNASVLEADD AFVGFSYAPP SEDLFL
              =====

```

HITS AT: 319-331, 482-487

## \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 142:213430

REFERENCE 2: 141:275706

REFERENCE 3: 141:168996

REFERENCE 4: 132:133015

L7 ANSWER 49 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 254728-96-6 REGISTRY  
 CN Kinase (phosphorylating), protein (human gene SGK3) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 4: PN: WO0035946 PAGE: 7 claimed protein  
 CN Kinase (phosphorylating), gene sgk protein (human isoenzyme SGK3)  
 CN Protein kinase (human gene SGK3)  
 CI MAN  
 SQL 429

```

SEQ      1 MALKIPAKRI FGDNFDPDFI KQRRAGLNEF IQNLVRYPEL YNHPDVRAFL
          51 QMDSPKHQSD PSEDEDERSS QKLHSTSQNI NLGPSGNPHA KPTDFDFLKV
        101 IGKGSFGKVL LAKRKLDGKF YAVKVLQKKI VLNRKEQKHI MAERNVLLKN
        151 VKHPFLVGLH YSFQTTEKLY FVLDFVNGGE LFFHLQRERS FPEHRARFYA
        201 AEIASALGYL HSIKIVYRDL KPENILLDSV GHVVLTDVGL CKEGIAISDT
        251 TTTFCGTPEY LAPEVIRKQP YDNTVDWWCL GAVLYEMLYG LPPFYCRDVA
              =====

```

09/868131

301 EMYDNILHKP LSLRPGVSLT AWSILEELLE KDRQNRLGAK EDFLEIQNHP  
351 FFESLSWADL VQKKIPPPFN PNVAGPDDIR NFDTAFTET VPYSVCVSSD  
401 YSIVNASVLE ADDAFVGFSY APPSEDLFL

=====

HITS AT: 252-264, 415-420

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 133:68896

REFERENCE 2: 132:89869

L7 ANSWER 50 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN 254728-95-5 REGISTRY

CN Kinase (phosphorylating), protein (human gene SGK2alpha) (9CI) (CA  
INDEX NAME)

OTHER NAMES:

CN 1: PN: WO0035946 PAGE: 6 claimed protein

CN Kinase (phosphorylating), gene sgk protein (human isoenzyme  
SGK2α)

CN Protein kinase (human gene SGK2alpha)

CI MAN

SQL 367

SEQ 1 MNSSPAGTPS PQPSRANGNI NLGPSANPNA QPTDFDFLKV IGKGNYGKVL  
51 LAKRKSDGAF YAVKVLQKKS ILKKKEQSHI MAERSVLLKN VRHPFLVGLR  
101 YSFQTPEKLY FVL DYVNGGE LFFHLQRERR FLEPRARFYA AEVASAIGYL  
151 HSLNIIYRDL KPENILLDCQ GHVVLTD FGL CKEGVEPEDT TSTFCGTPEY  
=====

201 LAPEVLRKEP YDRAVDWWCL GAVLYEMLHG LPPFYSQDVS QMYENILHQP  
=====

251 LQIPGGRTVA ACDLLQSL LH KDQRQLGSK ADFLEIKNHV FFSPINWDDL  
301 YHKRLTPPFN PNV TGPADLK HFDPEFTQEA VSKSIGCTPD TVASSSGASS  
351 AFLGFSYAPE DDDILDC  
=====

HITS AT: 192-204, 352-357

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 133:68896

REFERENCE 2: 132:89869

L7 ANSWER 51 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN

RN 254728-94-4 REGISTRY

CN Kinase (phosphorylating), protein (Mus musculus gene Sgk2) (9CI) (CA  
INDEX NAME)

OTHER NAMES:

CN 3: PN: WO0035946 PAGE: 7 claimed protein

CN Kinase (phosphorylating), gene sgk protein (Mus musculus isoenzyme  
SGK2)

CN Protein kinase (mouse gene Sgk2)

CI MAN

SQL 367

SEQ 1 MASSPVGVPS PQPSRANGNI NLGPSANPNA RPTDFDFLKV IGKGNYGKVL  
51 LAKRKSDGAF YAVKVLQKKS ILKNKEQNHI MAERNVLLKN VRHPFLVGLR  
101 YSFQTPEKLY FVL DYVNGGE LFFHLQRERR FLEPRARFYT AEVASAIGYL  
151 HSLNIIYRDL KPENILLDCQ GHVVLTD FGL CKECPEPEET TSTFCGTPEY

Searcher : Shears 571-272-2528

```

=====
201 LAPEVLRKEP YDRAVDWWCL GAVLYEMLHG LPPFFNTDVA QMYENILHQP
=====
251 LQIPGGRTVA ACDLLQGLLH KDQRQRLGSK EDFLDIKNHM FFSPINWDDL
301 YHKRLTPPFN PNVEGPADLK HFDPEFTQEA VSKSIGCTPD TVASSSGASS
351 AFLGFSYAQD DDDILDS
=====

```

HITS AT: 192-204, 352-357

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 133:68896

REFERENCE 2: 132:89869

L7 ANSWER 52 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN **238741-87-2** REGISTRY  
 CN Kinase (phosphorylating), gene sgk protein (rabbit strain  
 New-Zealand-white renal cortex collecting tubule) (9CI) (CA INDEX  
 NAME)  
 OTHER NAMES:  
 CN GenBank AAD43303  
 CN GenBank AAD43303 (Translated from: GenBank AF139639)  
 CN Serum and glucocorticoid-regulated protein kinase (Oryctolagus  
 cuniculus strain New-Zealand-white renal cortex collecting tubule gene  
 Sgk)  
 CI MAN  
 SQL 431

```

SEQ      1 MTVKTEAARG PLTYSRMRGM VAILIAFMKQ RRMGLNDFIQ KIANNSYACK
          51 HTEVQSILKI SQPQEPELMN ANSPPPSPS QQINLGPSSN PHAKPSDFHF
        101 LKVIKGSFG KVLARHKA EAFYAVKVLQ KKAILKKKEE KHIMSERVL
        151 LKNVKHPFLV GLHFSFQTAD KLYFVLDYIN GGELFYHLQR ERCFLEPRAR
        201 FYAAEIASAL GYLHSLNIVY RDLKPENILL DSQGHIVLTD FGLCKENIEH
        251 NGTTSTFCGT PEYLAPEVLH KQPYDRTVDW WCLGAVLYEM LYGLPPFYSR
          =====
        301 NTAEMYDNIL NKPLQLKPNI TNSARHLLEG LLQKDRTKRL GAKDDFMEIR
        351 NHVFFSLINW DDLINKKITP PFNPNVSGPS DLRHFDPEFT EEPVPSSIGR
        401 SPDSILITAS VKEAAEAF LG FSYAPPMDSF L
          =====

```

HITS AT: 255-267, 418-423

REFERENCE 1: 131:168287

L7 ANSWER 53 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN **238741-86-1** REGISTRY  
 CN Kinase (phosphorylating), gene sgk protein (Mus musculus) (9CI) (CA  
 INDEX NAME)  
 OTHER NAMES:  
 CN GenBank AAD43302  
 CN GenBank AAD43302 (Translated from: GenBank AF139638)  
 CN Serum and glucocorticoid-regulated protein kinase (mouse gene Sgk)  
 CI MAN  
 SQL 431

```

SEQ      1 MTVKAEAAARS TLTYSRMRGM VAILIAFMKQ RRMGLNDFIQ KIASNTYACK
          51 HAEVQSILKM SHPQEPELMN ANSPPPSPS QQINLGPSSN PHAKPSDFHF
        101 LKVIKGSFG KVLARHKA EVFYAVKVLQ KKAILKKKEE KHIMSERVL
        151 LKNVKHPFLV GLHFSFQTAD KLYFVLDYIN GGELFYHLQR ERCFLEPRAR

```

09/868131

201 FYAAEIASAL GYLHSLNIVY RDLKPENILL DSQGHIVLTD FGLCKENIEH  
251 NGTTSTFCGT PEYLAPVLH KQPYDRTVDW WCLGAVLYEM LYGLPPFYSR  
=====

301 NTAEMYDNIL NKPLQLKPNI TNSARHLLEG LLQKDRTKRL GAKDDFMEIK  
351 SHIFFSLINW DDLINKKITP PFNPNVSGPS DLRHFDPEFT EEPVPSSIGR  
401 SPDSILVTAS VKEAAEAF LG FSYAPPVDSF L  
=====

HITS AT: 255-267, 418-423

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 131:168287

L7 ANSWER 54 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 219592-29-7 REGISTRY  
CN Kinase (phosphorylating), gene sgk protein (human isoenzyme H-SGK2)  
(9CI) (CA INDEX NAME)  
CI MAN  
SQL 496

SEQ 1 MQRDHTMDYK ESCPSVSIPS SDEHREKKKR FTVYKVLVSV GRSEWFVFR  
51 YAEFDKLYNT LKKQFPAMAL KIPAKRIFGD NFDPDFIKQR RAGLNEFIQ  
101 LVRYPELYKH PDVRAFLQMD SPKHQSDPSE DEDERSSQKL HSTSQNINLG  
151 PSGNPHAKPT DFDLKVIGK GSFGKVLLAK RKLDGKFYAV KVLQKKIVLN  
201 RKEQKHIMAE RNVLLKNVKH PFLVGLHYSF QTTEKLYFVL DFNNGGELFF  
251 HLQERSFPE HRARFYAAEI ASALGYLHSI KIVYRDLKPE NILLDSVGHV  
301 VLTDFGLCKE GIAISDTTTT FCGTPEYLAP EVIRKQPYDN TVDWWCLGAV  
=====

351 LYEMLYGLPP FYCRDVAEMY DNILHKPLSL RGVSLTAW S ILEELLEKDR  
401 QNRLGAKEDF LEIQNHPPFE SLSWADLVQK KIPPPFNPNV AGPDDIRNFD  
451 TAFTEETVPY SVCVSSDYSI VNASVLEADD AFVGFSYAPP SEDLFL  
=====

HITS AT: 319-331, 482-487

REFERENCE 1: 130:106933

L7 ANSWER 55 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 212137-20-7 REGISTRY  
CN L-Leucine, L- $\alpha$ -glutamyl-L-alanyl-L-phenylalanyl-L-leucylglycyl-L-phenylalanyl-L-seryl-L-tyrosyl-L-alanyl-L-prolyl-L-prolyl-L-threonyl-L- $\alpha$ -aspartyl-L-seryl-L-phenylalanyl- (9CI) (CA INDEX NAME)  
SQL 16

SEQ 1 EAFLGFSYAP PTDSFL  
=====

HITS AT: 3-8

REFERENCE 1: 129:213510

L7 ANSWER 56 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 190857-79-5 REGISTRY  
CN Protein sgk (human protein kinase-like) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN Kinase (phosphorylating), gene sgk protein (human)  
CN Kinase (phosphorylating), protein (human gene SGK)  
CN Protein kinase (human gene SGK)  
CI MAN  
SQL 431

09/868131

201 FYAAEIASAL GYLHSLNIVY RDLKPENILL DSQGHIVLTD FGLCKENIEH  
251 NGTTSTFCGT PEYLAPEVLH KQPYDRTVDW WCLGAVLYEM LYGLPPFYSR  
=====

301 NTAEMYDNIL NKPLQLKPNI TNSARHLLG LLQKDRTRKRL GAKDDFMEIK  
351 SHIFFSLINW DDLINKKITP PFNPNVSGPS DLRHFDPEFT EEPVPSSIGR  
401 SPDSILVTAS VKEAAEAF LG FSYAPPVDSF L  
=== ===

HITS AT: 255-267, 418-423

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE 1: 131:168287

L7 ANSWER 54 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 219592-29-7 REGISTRY  
CN Kinase (phosphorylating), gene sgk protein (human isoenzyme H-SGK2)  
(9CI) (CA INDEX NAME)  
CI MAN  
SQL 496

SEQ 1 MQRDHTMDYK ESCPSVSIPS SDEHREKKKR FTVYKVLVSV GRSEWVFVRR  
51 YAEFDKLYNT LKKQFPAMAL KIPAKRIFGD NFDPDFIKQR RAGLNEFIQN  
101 LVRYPELYKH PDVRAFLQMD SPKHQSDPSE DEDERSSQKL HSTSQNINLG  
151 PSGNPHAKPT DFDFLKVIGK GSFGKVLLAK RKLDGKFYAV KVLQKKIVLN  
201 RKEQKHIMAE RNVLLKNVKH PFLVGLHYSF QTTEKLYFVL DFVNGGELFF  
251 HLQRERSFPE HRARFYAAEI ASALGYLHSI KIVYRDLKPE NILLDSVGHV  
301 VLTDGFLCKE GIAISDTTTF FCGTPEYLAPEVIRKQPYDN TVDWWCLGAV  
== ===== =

351 LYEMLYGLPP FYCRDVAEMY DNILHKPLSL RGVSLTAW ILEELLEKDR  
401 QNRLGAKEDF LEIQNHPPFE SLSWADLVQK KIPPPFNPNV AGPDDIRNFD  
451 TAFTEETVPY SVCVSSDYI VNASVLEADD AFVGFSYAPP SEDLFL  
=====

HITS AT: 319-331, 482-487

REFERENCE 1: 130:106933

L7 ANSWER 55 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 212137-20-7 REGISTRY  
CN L-Leucine, L- $\alpha$ -glutamyl-L-alanyl-L-phenylalanyl-L-leucylglycyl-L-phenylalanyl-L-seryl-L-tyrosyl-L-alanyl-L-prolyl-L-prolyl-L-threonyl-L- $\alpha$ -aspartyl-L-seryl-L-phenylalanyl- (9CI) (CA INDEX NAME)  
SQL 16

SEQ 1 EAFLGFSYAP PTDSFL  
=====

HITS AT: 3-8

REFERENCE 1: 129:213510

L7 ANSWER 56 OF 56 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 190857-79-5 REGISTRY  
CN Protein sgk (human protein kinase-like) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN Kinase (phosphorylating), gene sgk protein (human)  
CN Kinase (phosphorylating), protein (human gene SGK)  
CN Protein kinase (human gene SGK)  
CI MAN  
SQL 431



09/868131

SEQ        1 MTVKTEAAKG TLTYSRMRGM VAILIAFMKQ RRMGLNDFIQ KIANNSYACK  
          51 HPEVQSILKI SQPQEPELMN ANSPPPSPS QQINLGPSSN PHAKPSDFHF  
         101 LKVIKGSFG KVLARHKA EYFYAVKVLQ KKAILKKKEE KHMSESNVL  
         151 LKNVKKPFLV GLHFSFQTAD KLYFVLDYIN GGELFYHLQR ERCFLEPRAR  
         201 FYAAEIASAL GYLHSLNIVY RDLKPENILL DSQGHIVLTD FGLCKENIEH  
         251 NSTTSTFCGT PEYLAPEVLH KQPYDRTVDW WCLGAVLYEM LYGLPPFYSR  
              =====

         301 NTAEMYDNIL NKPLQLKPNI TNSARHLLEG LLQKDRTKRL GAKDDFMEIK  
         351 SHVFFSLINW DDLINKKITP PFNPNVSGPN ELRHFDPEFT EEPVPNSIGK  
         401 SPDSVLVTAS VKEAAEAFLG FSYAPPTDSF L

                              === ===

HITS AT:    255-267, 418-423

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

REFERENCE    1:    129:271364

REFERENCE    2:    129:213510

REFERENCE    3:    127:29991

FILE 'MEDLINE' ENTERED AT 16:58:52 ON 22 FEB 2006

FILE 'BIOSIS' ENTERED AT 16:58:52 ON 22 FEB 2006  
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FILE 'EMBASE' ENTERED AT 16:58:52 ON 22 FEB 2006  
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L8                    0 S L7

FILE 'HOME' ENTERED AT 16:59:23 ON 22 FEB 2006

09/868131

=> d his ful

(FILE 'HOME' ENTERED AT 16:47:26 ON 22 FEB 2006)  
SET COST OFF

FILE 'REGISTRY' ENTERED AT 16:51:56 ON 22 FEB 2006  
L1 43378 SEA ABB=ON PLU=ON F[2.][FY][ST][FY] |.TFCGT[PI][DE]Y[LIM]A  
PE/SQSP

FILE 'CAPLUS' ENTERED AT 16:53:13 ON 22 FEB 2006  
L\*\*\* DEL 23 S L1 AND COHEN ?/AU  
L\*\*\* DEL 3 S L2 AND DEAK ?/AU  
D TI AU 1-3  
D .BEVSTR  
L2 7284 SEA ABB=ON PLU=ON L1  
L3 558 SEA ABB=ON PLU=ON SGK## OR SER##(1W) (GLUCOCORTICOID? OR  
GLUCO CORTICOID?) (2W) KINASE  
D KWIC  
D KWIC 2-3  
L4 40 SEA ABB=ON PLU=ON L2 AND L3  
L5 17 SEA ABB=ON PLU=ON L2(L) L3  
L\*\*\* DEL 2 S L5 AND DEAK ?/AU  
D TI AU 1-2

FILE 'REGISTRY' ENTERED AT 16:57:11 ON 22 FEB 2006

FILE 'CAPLUS' ENTERED AT 16:57:11 ON 22 FEB 2006  
D QUE L5  
D L5 1-17 .BEVSTR  
SEL HIT L5 1-17 RN

FILE 'REGISTRY' ENTERED AT 16:57:49 ON 22 FEB 2006  
L6 56 SEA ABB=ON PLU=ON (190857-79-5/BI OR 254728-94-4/BI OR  
254728-95-5/BI OR 254728-96-6/BI OR 868907-66-8/BI OR  
212137-20-7/BI OR 219592-29-7/BI OR 238741-86-1/BI OR  
238741-87-2/BI OR 256631-23-9/BI OR 278171-75-8/BI OR  
278171-76-9/BI OR 278171-78-1/BI OR 278171-80-5/BI OR  
278621-63-9/BI OR 278622-91-6/BI OR 278622-94-9/BI OR  
278622-95-0/BI OR 278622-97-2/BI OR 298278-24-7/BI OR  
315261-70-2/BI OR 344611-49-0/BI OR 344611-51-4/BI OR  
345924-22-3/BI OR 346014-19-5/BI OR 346014-20-8/BI OR  
346014-22-0/BI OR 346014-25-3/BI OR 346014-27-5/BI OR  
346014-28-6/BI OR 346014-29-7/BI OR 346014-30-0/BI OR  
346014-34-4/BI OR 346014-35-5/BI OR 346014-36-6/BI OR  
346014-37-7/BI OR 346014-38-8/BI OR 346014-39-9/BI OR  
346014-40-2/BI OR 346014-41-3/BI OR 346014-42-4/BI OR  
346014-45-7/BI OR 346014-46-8/BI OR 346014-47-9/BI OR  
346014-48-0/BI OR 346014-49-1/BI OR 346014-50-4/BI OR  
346014-51-5/BI OR 346014-54-8/BI OR 346434-35-3/BI OR  
456018-55-6/BI OR 456019-53-7/BI OR 459673-27-9/BI OR  
463985-36-6/BI OR 480564-37-2/BI OR 871134-17-7/BI)  
D SQL  
D SEQ  
L7 56 SEA ABB=ON PLU=ON L1 AND L6  
D L7 1-56 .BEVREG1

FILE 'MEDLINE, BIOSIS, EMBASE' ENTERED AT 16:58:52 ON 22 FEB 2006  
L8 0 SEA ABB=ON PLU=ON L7

Searcher : Shears 571-272-2528

09/868131

FILE 'HOME' ENTERED AT 16:59:23 ON 22 FEB 2006

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 21 FEB 2006 HIGHEST RN 874882-62-9  
DICTIONARY FILE UPDATES: 21 FEB 2006 HIGHEST RN 874882-62-9

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\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMI for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

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FILE LAST UPDATED: 21 Feb 2006 (20060221/ED)

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FILE MEDLINE

Searcher : Shears 571-272-2528

09/868131

FILE LAST UPDATED: 21 FEB 2006 (20060221/UP). FILE COVERS 1950 TO DA

On December 11, 2005, the 2006 MeSH terms were loaded.

The MEDLINE reload for 2006 will soon be available. For details on the 2005 reload, enter HELP RLOAD at an arrow prompt (=>).

See also:

<http://www.nlm.nih.gov/mesh/>  
[http://www.nlm.nih.gov/pubs/techbull/nd04/nd04\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html)  
[http://www.nlm.nih.gov/pubs/techbull/nd05/nd05\\_med\\_data\\_changes.ht](http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.ht)  
[http://www.nlm.nih.gov/pubs/techbull/nd05/nd05\\_2006\\_MeSH.html](http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html)

OLDMEDLINE is covered back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

This file contains CAS Registry Numbers for easy and accurate

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 15 February 2006 (20060215/ED)

FILE EMBASE

FILE COVERS 1974 TO 20 Feb 2006 (20060220/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate  
substance identification.